

Controller Catalog

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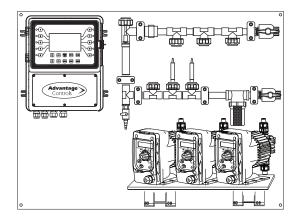
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Restocking Charge - All items accepted for credit are subject to a restocking fee of 25% of the original sale price. All items returned for credit must be new, unused, undamaged equipment less than 3 months old that is still in production.

Minimum Order - There is a minimum net order amount of \$30.00, excluding shipping.

Please Note - Possession of price list does not ensure right to purchase direct. Due to continuous improvement of products, prices subject to change without notice.

Notes:

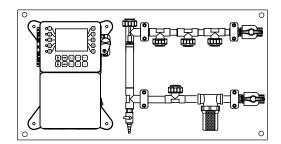


Make Installation Easy with a Pre-Fab System!

We can premount your controller, chemical metering pumps, sample line and bleed-off line with bleed valve onto one easy to install poly panel.

You won't have to fight with plumbers and electricians to make sure your system is installed correctly. All they have to do is run water in and out.

Save time and money! See the pre-fabrication options on pages 18-21.



Our Most Popular MegaTron SS Tower Prefab

CM10-AB3E

Assembled prefab includes isolation valves, 3 quick release injection tees, strainer and sample port. Controller ordered separately.

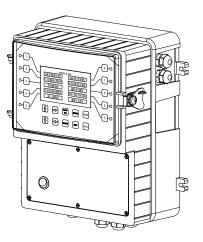
See page 20 for more details.

MegaTron Controllers

MegaTrons combine a large 16 line display with a simple ATM style menu to create our most powerful and flexible controller. A single unit can control 1 to 4 systems.

To build a model pick the function(s) needed by the type of probe. Add the code for each function you need for a system. For a multiple system controller list all of the functions of the first system followed by a **dash** then the functions for the next system. If system two is the same as the first just put (–X2). If the systems 2, 3 and 4 are the same as the first put a (-X4).

After all system(s) functions use another **dash** and list all of the unit options needed. Example: **MGCPF3E-CF3E-H1K**.

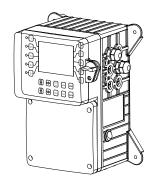


Notes:

- 1. All timers are selectable between: pulse (water meter), percent, post blow down, limit and 28-day.
- **2.** Any system with a timer automatically gets two water meter inputs.
- **3.** Do not exceed the maximum number of each control function.
- 4. A MegaTron controller can have a maximum of 20 relay outputs. Each control function (except make-up conductivity) is supplied with a control relay, but you can menu select what activates each relay provided. Dry contact and additional control relays count towards the total of 20.
- **5.** Internet connection options H4 and H5 require a user supplied ISP. Option H4 requires an unlimited dial-up ISP. Option H5 requires an unlimited "data only" plan from a cell provider on a USB style cell modem.
- **6.** Internet connection option H5 requires that the selected cell provider's signal is strong enough at controller installation point to work correctly.

MegaTron Controllers

These units are a smaller single system version of the MegaTron with 5 relays, 5 digital inputs, 2 water meter inputs and expansion slots plus all of the user friendly features of a full size MegaTron including the ATM style menu.



Web Advantage

Get the optional internet communications card and Web Advantage lets you constantly stay connected to your unit over the internet and get emailed reports automatically sent to you.

Web Advantage is a totally secure server dedicated to keeping track of all of your internet connected MegaTron units. Any MegaTron equipped with an internet connection option will be monitored 24 hours a day by Web Advantage providing you constant, real time information. Web Advantage allows you to change settings, generate history reports automatically and select who to send email alarm notifications to should Web Advantage detect any system conditions outside your parameters.

Access to Web Advantage no longer has an annual fee! There is simply a connection fee to establish ownership rights. The initial connection fee is included free with the purchase of a MegaTron with communications, giving the original buyer ownership rights also. If a MegaTron's ownership changes from the original buyer the Transfer fee will be charged to establish new ownership rights.

Build a MegaTron

Model MG _ _ _ _ _ _ _ _ _ _ _

Conductivity Control (1 per system max) —

C = TE-4A Standard Tower probe; 140°F and 150 PSI max

C0 = Tower Conductivity no probe

C1 = TE-4ASS Standard Tower probe w/ S.Steel Tips; 140°F and 150 PSI max

C3 = AH-4ASS 1" MNPT, 212°F and 250 PSI max

C5 = DC-4ASS tank mount; 190°F max

C8 = AL-4RTD pure water probe, 212°F and 100 PSI max (no ORP with C8)

C10= DI-4A, 140°F and 150 PSI max, 1" MNPT

C11 = CS-4ASS corporation stop style electrode, 60 PSI

B0 = Boiler conductivity no probe

B1 = BE-4RTDC boiler probe, RTD temp, 1" cross, 350 PSI @ 265°F / 250 @ 400°F

B2 = BE-32C probe, no temp comp, 1" cross, 350 PSI @ 265°F / 250 PSI @ 400°F

B5 = BE-2 boiler probe, no temp comp, 1" cross, 50 PSI boiler max

D = DI-27-4A high conductivity range

D1 = TE-4A high conductivity range (0-50,000)

Make-up / Miscellaneous Conductivity (max of 1 per system) -

M = DI-4A Standard Make-up, 140°F and 150 PSI max, 1" MNPT

MA = Alias make-up input of one system's make-up reading

M0 = Make-up / miscellaneous conductivity no probe

M1 = DI-4ASS

M3 = AH-4ASS with 1" MNPT, 250 PSI max

M4 = TE-4A PVC 3/4" slip tee design, 150 psi max

M6 = CS-4ASS corporation stop style electrode, 60 PSI

PH Control (1 per sys max) For dual set point use Q instead of P

P = TPE-21 Standard Tower, 140°F and 100 PSI max

P0 = pH Control no probe

PA = Alias pH input from another system's pH reading

P1 = PE-21H, CPVC probe with 1/2" MNPT, 180°F @ 80 PSI max

P2 = TPE-21 w/ pre amp

P3 = PE-21H w/ pre amp

P4 = Tank mounted probe

P5 = Tank mount w/ pre amp

P8 = PE-21SS stainless steel probe 1/2" MNPT, 212°F and 250 PSI max

P9 = PE-21SS with pre amp

P11 = PE-11 low ionic probe with 1/2" MNPT, 180°F and 50 PSI max

P12 = PE-11 w/ pre amp

P15 = Corp-stop style pH probe w/ pre amp

ORP Control (1 per system max)

R = TOE-21 Standard Tower, 140°F and 100 PSI max

RO = ORP Control no probe

RA = Alias ORP input from another system's ORP reading

R1 = OE-21H, CPVC probe with 1/2" MNPT, 180°F @ 80 PSI max

R2 = TOE-21 with preamp

R3 = TOE-21H with preamp

R4 = Tank mounted probe

R5 = Tank mounted ORP w/ pre amp

R8 = OE-21SS stainless steel probe 1/2" MNPT, 212°F and 250 PSI max

R15= Corp-stop style ORP probe w/ pre amp

Temperature Control (2 max / system – Each conductivity uses up one)

T = TC-1 Standard Tower, 140°F and 150 PSI max

T2 = High temp probe, with 1" MNPT, 212°F and 250 PSI max

Feed Timers (max of 5 per system: 28-DAY, PULSE, %, LIMIT or POST BLEED) -

F1 to F5 (F4 = Four feed timers)

Flow Switches -

E = Standard float style flow switch assembly (towers); 140 PSI @ 75°F

E3 = Paddle flow switch with PVC flow assembly: 140 PSI @ 75°F

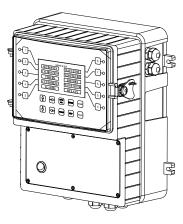
E4 = Paddle flow switch with PVC flow assembly (unassembled with 10' cord); 140 PSI @ 75°F

E5 = Paddle flow switch with brass assembly; 250 PSI @ 75°F (order appropriate probes)

E6 = Flow switch connection only with cable

E8 = Standard float switch assembly unassembled with 10' cord; 140 PSI @ 75°F

After all System Card features are selected go to the next page for whole unit options.



MegaTrons now include all card expansion slots and 5 digital inputs for drum level alarms and other digital inputs on each system card as a standard feature.

MegaTron Whole Unit Options

A = Conduit connections

A3 = Liquid tights only with CE mark
A7 = Australian power cord, no pigtails
A31 = 10' cable on relays 11-15 box
A41 = 10' cable on relays 11-20 boxes
H1 = Internet card with CAT5 connection
H4 = Internet card with internal Phone Modem

H5 = Internet card with external Cellular Router for USB Modem
 H11 = Internet card with CAT5 connection and Modbus TCP/IP
 H14 = Internet card with phone modem and Modbus TCP/IP
 H21 = Internet card with CAT5 connection and BACNet TCP/IP

H31 = Internet card with CAT5 connection and Lonworks

K = Additional control relays (K, K2, K3) don't exceed 20 relays total
 N3 = Three 4-20mA Inputs; 8 inputs max (can't have N and U options together)
 N8 = Eight 4-20mA Inputs; 8 inputs max (can't have N and U options together)

O3 = Three 4-20mA Isolated Outputs; 6 outputs max O6 = Six 4-20mA Isolated Outputs; 6 outputs max

S = Saturation index (Unit must have tower conductivity & pH)

U3 = Three 0-5 volt isolated Inputs; 8 max (can't have U and N options together)
U8 = Eight 0-5 volt isolated Inputs; 8 max (can't have U and N options together)
V = 5 VDC output with water meter connections for paddle wheel flow meters
V2 = 12 VDC output with water meter connections for paddle wheel flow meters

W3 = 3 auxiliary flow meter inputs
W6 = 6 auxiliary flow meter inputs
W9 = 10 auxiliary flow meter inputs

Y = ETL Agency Listing

Notes: 1. Pre-wired 4-20mA input cables with external connector can be ordered below.

2. 0-5 volt input option required for BlueTrack.

3. See page 29 for specialty sensors.

MegaTron Parts

MG-RL-05 Replacement relay card with 5 relays
MG-RL-05-BOX Complete remote relay box with 5 relays
MG-RL-CPLR Relay card ribbon cable to wire cable coupler

MG-PWR Power supply board MG-PROGCHIP MegaTron Program chip

MG-KEYPAD-ASM Keypad and display panel assembly (no display)
MG-DISPLAY-ASM Display panel assembly complete with keypad

MG-DISPLAY-ASM-V1 Display panel assembly complete with keypad (older motherboards)

MG-DOOR Clear cover MG-FUSE-PAK (5) 2.5 amp fuses

MG-ICM-01 Internet communications card

MG-ICM-04 Internet communications card with internal phone modem

MG-CL-ROUTER External cellular router only

MG-CL-ROUTER-TA Complete external cellular router with enclosure and power supply

MG-CAT5 CAT 5 cable from internal communications card

MG-CROSS Crossover cable for H1 option

MG-MAO-3 4-20mA output card with 3 outputs, change suffix for # of outputs needed MG-MAI-3 4-20mA input card with 3 inputs, change suffix for # of inputs needed MG-VIN-3 0-5 volt input card with 3 inputs, change suffix for # of inputs needed

MG-AUXFLOW-W3 3 auxiliary flow meter inputs
MG-AUXFLOW-W6 6 auxiliary flow meter inputs
MG-AUXFLOW-W9 10 auxiliary flow meter inputs

AUXFLOW-WIRE Auxiliary flow meter input cable with 3 pin Molex

MG-SYS- System card

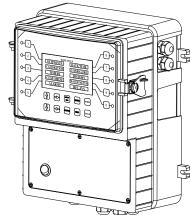
Add all of the desired system function codes from the unit model numbering system

and add the control function price without probe.

INPUT-CABLE-2 Prewired 2 conductor cable to 4-20mA input and 12Vdc power with external connector, 3'
INPUT-CABLE-4 Prewired 4 conductor cable to 4-20mA input and 12Vdc power with external connector, 3'

MegaTron Field Upgrades

MegaTrons may be upgraded to add functions and features depending on desired additions and original option configuration. Contact the factory with the model and serial number of the unit and the additions for more details.



Build a MegaTron

Model **SS** ________ **Conductivity Control** C = TE-4A Standard Tower probe: 140°F and 150 PSI max C0 = Tower Conductivity no probe C1 = TE-4ASS Standard Tower probe w/ S.Steel Tips; 140°F and 150 PSI max C3 = AH-4ASS 1" MNPT, 212°F and 250 PSI max C5 = DC-4ASS tank mount; 190°F max C8 = AL-4RTD pure water probe, 212°F and 100 PSI max (no ORP with C8) C10= DI-4A, 140°F and 150 PSI max, 1" MNPT After Single System Card C11 = CS-4ASS corporation stop style electrode, 60 PSI features are selected go B0 = Boiler conductivity no probe to the next page for whole B1 = BE-4RTDC boiler probe, RTD temp, 1" cross, 350 PSI @ 265°F / 250 @ 400°F unit options. B2 = BE-32C probe, no temp comp, 1" cross, 350 PSI @ 265°F / 250 PSI @ 400°F B5 = BE-2 boiler probe, no temp comp, 1" cross, 50 PSI boiler max B9 = RTD Temp Comp - No Sensor Supplied D = DI-27-4A high conductivity range D1 = TE-4A high conductivity range (0-50,000) ᅅ 에 PH Control For dual set point use Q instead of P 에 P = TPE-21 Standard Tower, 140°F and 100 PSI max બ ા Ø ⊕ □ ⊢ ⊷ P0 = pH Control no probe 00000 P1 = PE-21H, CPVC probe with 1/2" MNPT, 180°F @ 80 PSI max P2 = TPE-21 w/ pre ampP3 = PE-21H w/ pre ampP4 = Tank mounted probe P5 = Tank mount w/ pre amp P8 = PE-21SS stainless steel probe 1/2" MNPT, 212°F and 250 PSI max P9 = PE-21SS with pre amp P11 = PE-11 low ionic probe with 1/2" MNPT, 180°F and 50 PSI max P12 = PE-11 w/ pre amp The MegaTronSS P15 = Corp-stop style pH probe w/ pre amp comes standard with 5 control relays and digital ORP Control (1 per controller) inputs, 2 water meter R = TOE-21 Standard Tower, 140°F and 100 PSI max RO = ORP Control no probe inputs and can have R1 = OE-21H, CPVC probe with 1/2" MNPT, 180°F and 80 PSI max communications, 4-20mA R2 = TOE-21 with preamp and many other options. R3 = TOE-21H with preamp R4 = Tank mounted probe R5 = Tank mounted ORP w/ pre amp R8 = OE-21SS stainless steel probe 1/2" MNPT, 212°F and 250 PSI max R15= Corp-stop style ORP probe w/ pre amp **Temperature Control** (2 max per controller – Each conductivity uses up one) T = TC-1 Standard Tower, 140°F and 150 PSI max T2 = High temp probe, with 1" MNPT, 212°F and 250 PSI max Feed Timers (max of 5 per controller: 28-DAY, PULSE, %, LIMIT or POST BLEED) — F1 to F5 (F4 = Four feed timers) Flow Switches

- E = Standard float style flow switch assembly (towers); 140 PSI @ 75°F
- E3 = Paddle flow switch with PVC flow assembly; 140 PSI @ 75°F
- E4 = Paddle flow switch with PVC flow assembly (unassembled with 10' cord); 140 PSI @ 75°F
- E5 = Paddle flow switch with brass assembly; 250 PSI @ 75°F (order appropriate probes)
- E6 = Flow switch connection only with cable
- E8 = Standard float switch assembly unassembled with 10' cord; 140 PSI @ 75°F

MegaTron Whole Unit Options

A = Conduit connections

A3 = Liquid tights only with CE mark
A7 = Australian power cord, no pigtails
H1 = Internet card with CAT5 connection
H4 = Internet card with internal Phone Modem

H5 = Internet card with external Cellular Router for USB Modem
H11 = Internet card with CAT5 connection and Modbus TCP/IP
H14 = Internet card with phone modem and Modbus TCP/IP
H21 = Internet card with CAT5 connection and BACNet TCP/IP
H31 = Internet card with CAT5 connection and Lonworks

N3 = Three 4-20mA Inputs (can't have N and U options together)

O3 = Three 4-20mA Isolated Outputs

S = Saturation index (Unit must have tower conductivity & pH)

U3 = Three 0-5 volt isolated Inputs; 8 max (can't have U and N options together)
 V = 5 VDC output with water meter connections for paddle wheel flow meters
 V2 = 12 VDC output with water meter connections for paddle wheel flow meters

V3 = 3 auxiliary flow meter inputs

Y = ETL Agency Listing

Notes: 1. Pre-wired 4-20mA input cables with external connector can be ordered below.

2. 0-5 volt input option required for BlueTrack.

3. See page 29 for specialty sensors.



MG-RL-05 Replacement relay card with 5 relays

MG-RL-CPLR Relay card ribbon cable to wire cable coupler

MG-PWR Power supply board SS-PROGCHIP MegaTron Program chip

SS-KEYPAD-ASM Keypad and display panel assembly (no display)

SS-DISPLAY-ASM Display panel assembly complete

SS-DOOR Clear cover

SS-ICM-01 Internet communications card

SS-ICM-04 Internet communications card with internal phone modem SS-COM-CB SS carrier board for communications card and 4-20 cards

MG-CAT5 CAT 5 cable from internal communications card

MG-CROSS Crossover cable for H1 option

SS-MAO-CB 4-20mA output board with 3 outputs and carrier board

SS-MAO-3 4-20mA output card with 3 outputs
SS-MAI-3 4-20mA input card with 2 inputs
SS-VIN-3 0-5 volt input card with 2 inputs
SS-AUXFLOW-W3 3 auxiliary flow meter inputs

AUXFLOW-WIRE Auxiliary flow meter input cable with 3 pin Molex

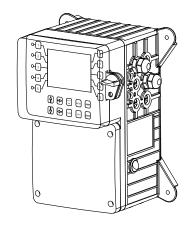
SS-SYS- Mother / System board for non RTD conductivity or timer only units SS-SYS-CP Mother / System board for non RTD conductivity and/or pH

SS-SYS-CR Mother / System board for non RTD conductivity and/or ORP
SS-SYS-CPR Mother / System board for non RTD conductivity and/or pH & ORP

SS-SYS-B1 Mother / System board for RTD conductivity

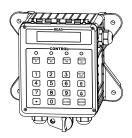
INPUT-CABLE-2 Prewired 2 conductor cable to 4-20mA input and 12Vdc power with external connector, 3' INPUT-CABLE-4 Prewired 4 conductor cable to 4-20mA input and 12Vdc power with external connector, 3'

Note: The prewired input cables simplify connecting to external 4-20mA signal sources that need 12 VDC power on the loop (i.e. fluorometers, level sensors and other specialty probes).



MicroTron Controller

MicroTron controllers can control tower or other system functions including: conductivity, pH, ORP and a variety of chemical feed timers. Each system control function drives a relay. MicroTrons can control a maximum of four (4) relay outputs. Choose a base model and add desired options.

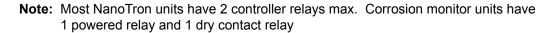


Build a Model (Four relay outputs max)

Tower —				
	LC = Conductivity; TE-4A Tower probe 140°F &150 PSI max LC-2 = Tower and Make-up Conductivity; TE-4A & DI-4A probes			
pH or ORI	P only			
pri or ora	LP = pH control; TPE-21 probes, 140°F and 100 PSI max LR = ORP control; TOE-21 probes 140°F and 100 PSI max			
Timer Only				
	LF2 = 2 timers Pulse or Percent			
	LB2 = 2 timers 28-day "Biocide"			
	EBE E uniolo Eo day Blooked			
Additional	Timers			
	Inhibitor Timers (Pulse, Limit, % Post Bleed and %)			
	F to F-4 (F-2 = Two feed timers)			
	(
	Biocide Timers (28-Day)			
	B to B-4 (B-2 = Two bio timers)			
	· ·			
Options				
A	Conduit connections 95-240 VAC			
C-3	Single 4-20 mA isolated output (straight output only, not proportional)			
C-4	Single 4-20 mA Non-Isolated Output			
E	Standard float style flow switch assembly (towers); 140 PSI @ 75°F			
E3	Paddle flow switch with PVC flow assembly; 140 PSI @ 75°			
E4	Paddle flow switch with PVC flow assembly (unassembled with 10' cord); 140 PSI @ 75°F			
E5	Paddle flow switch with brass assembly; 250 PSI @ 75°F (order appropriate probes)			
E6	Flow switch connection only with cable			
E8	Standard float switch assembly unassembled with 10' cord; 140 PSI @ 75°F			
M	Alarm Relay			
M-1	Alarm, Dry Contact			
O-1	Tank Mounted Probe, mounting brackets included (pH only)			
O-2	Tank Mounted Probe, mounting brackets included (conductivity only)			
O-3	Tank Mounted Probe, mounting brackets included (ORP only)			
Р	Remote pH or ORP Transmitter			
Q-1	Tower conductivity probe AH-4ASS, 250 psi max (32° - 140°F)			
Q-4	Tower conductivity probe TE-4ASS with SS electrodes, 140°F &150 PSI max			
Q-12	High Temperature SS body pH probe, PE-21SS (212°F max)			
Z-6	Accepts 1 Water Meter Input per chem feed timer			
Z19	Timed Sampling conductivity control			
9	Paddle Wheel Flowmeter input - 5 volt d.c. drive signal			
9a	Paddle Wheel Flowmeter input - 12 volt d.c. drive signal			

NanoTron Controller

The NanoTron compact units are designed to automate various applications. Simple step through menu provides user-defined configuration.





Model NANO-Conductivity Control & 1 Feed Timer -C = TE-4A **Standard Tower** probe 140°F and 150 PSI max C0 = Tower Conductivity no probe C1 = TE-4ASS Standard Tower probe with S. Steel Tips; 140°F and 150 PSI max C3 = AH-4ASS 212°F and 250 PSI max C4 = DC-4A Tank mount 190°F max C5 = DC-4ASS Tank mount with S. Steel Tips: 190°F max B0 = Boiler Conductivity no probe B2 = BE-32 non temp comp boiler probe 250 PSI @ 400°F B5 = BE-2 non temp comp boiler probe 50 PSI boiler max Model NANO-Two Selectable Feed Timers -F2 Model NANO-Corrosion Monitor with 4-20mA Output -M0 = Corrosion monitor with no sensor body M01 = Corrosion monitor with PVC quick release probe body and 3/4" tee; 140 PSI @ 75°F M02 = Corrosion monitor with 1" SS threaded probe body; 200 PSI @ 200°F **NOTE:** Corrosion sensor tips available at the bottom of this page. Options -= 100-240 volt conduit connections A3 = 100-240 volt conduit connections and CE approval A7 = Australian power cord (240 VAC) = Standard float style flow switch assembly (towers); 140 PSI @ 75°F

E5 = Paddle flow switch with brass assembly; 250 PSI @ 75°F (order appropriate probes) E6 = Flow switch connection only with cable

E8 = Standard float switch assembly unassembled with 10' cord; 140 PSI @ 75°F

E4 = Paddle flow switch with PVC flow assembly (unassembled with 10' cord); 140 PSI @ 75°F

Y = ETL agency listing

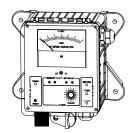
Corrosion Sensor Tips for Nano-M corrosion monitors (order as seperate line items)

E3 = Paddle flow switch with PVC flow assembly: 140 PSI @ 75°F

CE-MS = Pair of Mild Steel
CE-CO = Pair of Copper
CE-BR = Pair of Brass
CE-CN = Pair of Cupro-Nickel
CE-AL = Pair of Aluminum

2EZ Analog Controllers

Advantage's 2EZ series of analog controllers provide an easy to use pre-wired controller in a NEMA 4X style enclosure with a padlockable clear cover, analog display, simple knob controls and ETL agency approval.



Build a 2EZ Model

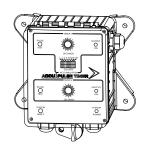
The model number starts with **2EZ** followed by a dash, then the code for the probe function desired. Once the main functions are selected, insert another dash (-) and list the desired options. Example: (**2EZ-ALT2-Y**)

	2EZ
Conductivity Control —	
A = TE-4A Standard Tower probe, 140°F and 15	60 PSI max
A0 = Tower Conductivity no probe	
A1 = TE-4ASS	
A3 = AH-4ASS with 1" MNPT, 212°F and 250 PS	SI max
A4 = DC-4A Tank mount 190° F max	
A6 = CS-4A Corporation stop style probe	
B0 = Boiler / condensate conductivity control no	
B2 = BE-32 Boiler / Condensate probe, 350 PSI	
B5 = BE-2 non temp comp boiler probe 50 PSI b	
D1 = Blue Track probe (no conductivity and only	with digital display)
Dallas Cassala Mathaul	
Boiler Sample Method	
7 = Timed Sample or Sample and Hold 8 = Continuous	
9 = Continuous 9 = Condensate	
3 - Condensate	
Display Type —	
	ale (0-500 on condensate units)
M = Analog Needle Meter 0-3,000, 0-6,000 s	scale (0-100, 0-500 condensate)
Chemical Feed Timers (not available on boiler u	nite)
T1 = Limit Timer 0-90 min.	mts)
T2 = Pulse Timer 0-150 sec.	
T3 = Percent Timer 10 minute cycle	
T33 = Percent Timer 33 minute cycle	
T4 = Post Bleed	
Flow Switch ————	
E = Standard float style flow switch assembly (to	
E3 = Paddle flow switch with PVC flow assembly:	
E4 = Paddle flow switch with PVC flow assembly	
E5 = Paddle flow switch with brass assembly; 25	0 PSI @ 75°F (order appropriate probes)
E6 = Flow switch connection only with cable	
E8 = Standard float switch assembly unassemble	d with 10' cord; 140 PSI @ 75°F
Ontions	
Options — C = Conduit connection	K = High/Low Alarm 120 volt and di

С	=	Conduit connection	K	=	High/Low Alarm 120 volt and dry contact
C1	=	240 volt conduit	0	=	4-20mA non-isolated output
C3	=	Delete pump pigtail on pre-wired units	01	=	4-20mA isolated output (requires +12vdc)
D	=	On/Off switch	R	=	Molex probe connection
F2	=	Prewired with 2 N.O. bleed pigtails	S1	=	0-5,000, 0-10,000 mS/cm for 2EZ-AM
F3	=	Prewired for MOV bleed	S2	=	0-1500, 0-3000 mS/cm for 2EZ-AM
F4	=	Extra pigtail for feed timer	S3	=	0-100 / 0-500 mS/cm for 2EZ-AM
F8	=	Extra pigtail On with flow	S4	=	0-1000 for 2EZ-AL
F81	=	Extra pigtail Off with flow	S10	=	0-10,000 mS/cm for 2EZ-AL
G	=	Time delay relay output	Υ	=	ETL agency listing USA/Canada
Н	=	Dry contact relay ON with conductivity			

Analog Timers

Advantage's standard analog timers provide an easy to use pre-wired controller in a NEMA 4X style enclosure with a padlockable clear cover and simple knob controls. Standard analog timer units are prewired with 8' power cords and 8" output pigtails. Digital encoders provide precise digital timing with a wide range of timer scales to choose from.



Water Meter Actuated Reset (Pulse)Timer

DWT-1 Single Pulse Timer Standard Scale 0-150 SecondsDWT-2 Dual Pulse Timer Standard Scales 0-150 Seconds

0.40 Minute Time Coale (DMT.4)

Options

Α	0-10 Minute Time Scale (DWT-1)
В	0-10 Minute/0-10 Minute Time Scale (DWT-2)
С	0-10 Minute/0-150 Second Time Scale (DWT-2)
D	Other Time Scale (see optional scales below)
E	Extra Female Output Cord
F	Single Accumulator 2-255 Counts
G	Dual Accumulator (Only with DWT-2) 2-255 Counts
Н	Sequential Operation on DWT-2 with 1 or no Accumulator only
1	Dual Timers Separate Operation on DWT-2, for use with 2 water meter inputs
J	Accepts 110 VAC Signal From Water Meter
K	N.O./N.C. contacts
L	Conduit Connections
M	220 VAC service
N	Dry contact relay output
S	Momentary switch instead of water meter input wire
S1	On/Off switch

Feed Limit Timer

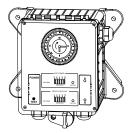
DLT-1 0 - 90 Minute Timer

Options

D	Option	Scales	for DWT, DLT, and DPT timers.	Other S	Scales a	re available, consult factory.
	D-0	0-31	Hours	D-6	0-155	Minutes
	D-1	0-31	Seconds	D-7	0-10	Minutes, 20 Seconds
	D-2	0-155	Seconds	D-8	0-7	Hours, 45 Minutes
	D-3	0-31	Minutes	D-9	0-310	Seconds
	D-4	0-62	Minutes	D-11	0-217	Minutes
	D-5	0-62	Seconds	D-12	0-248	Minutes

Biocide Timer

Model BC timers provide accurate control of biocide feed based on a seven day cycle clock. All BC models utilize a simple wheel design with tabs for easy programming.



BC-1	/ Day Timer with 2 hour Intervals
BC-2	7 Day Timer With 10 Minute Intervals, Also Switch Selectable Alternator
BC-2A	7 Day Timer With all the Features of Model BC-2 With Added 10 minutes
	to 5 Hour 10 Minute Bleed Lockout.

Options

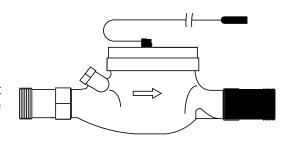
5	Mounted Flow Switch
D	Dry contact for Bleed Lockout with 2 Wire Lead

E Additional Female Output Cord

COOLING TOWER ACCESSORIES

Contacting Head Water Meters

Contacting head water meters provide an electrical dry contact out for proportional control based on water flow when used with a pulse activated timer or pump.



Cold Water Meters 105°F Max

Part Number	Pipe Size	Gallons per Contact	PSI Max	Flow Range GPM	Shipping Wt. (lbs)
AW-2-G10	3/4"	10	150	0.5-20	4
AW-3-G10	1"	10	150	1-50	7
AW-4-G10	1 1/2"	10	150	1.5-100	15
AW-5-G10	2"	10	150	2-130	17
AWR-2T	2"	100	200	2-132	40
AWR-3T	3"	1000	200	5.3-352	42
AWR-4T	4"	1000	200	8-528	51

Notes:

- All AW-2, 3, 4, and 5 meters are supplied with couplings and gaskets.
- Add Suffix "A" for meter without contacting head.
- Change -G10 to -G100 for 100 GPC on AW-2, 3, 4, and 5.

Water Meter Accessories

RCT-1 Remote Resetable Totalizer
RCT-1N Non-resetableTotalizer
AW-SP2 Signal Splitter 2 Outputs
AW-SP3 Signal Splitter 3 Outputs

PD-1 Pulse Divider

AW-RS Reed Switch for meter

AW-RSM Reed Switch for Master Meter

Paddle Wheel Flow Meters

IP81P Fixed Depth sensor, PVC body, 75 PSI @ 120°F / 175 PSI @ 75°F

 MF81T-P-075
 3/4" PVC tee for IP81P

 MF81T-P-100
 1" PVC tee for IP81P

 MF81T-P-200
 2" PVC tee for IP81P

MF82S-P-300 PVC saddle for 3" pipe for IP81P

IP115S Adjustable depth insertion sensor for 3" to 10", 2" MNPT ball valve

316 SS body with bronze ball valve, 200 psi / 200°F max

Other Water Meters and Replacement Parts

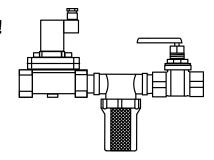
We can help you get many other types and styles of flow measuring devices along with replacement kits for several brands of water meters. Contact the factory for more details.

Bleed-Off Piping Assemblies....Make Maintenance Easy!

Adding a strainer and isolation valve to your bleed valve! **A** adds poly strainer & brass isolation valve

A1 adds metal y-strainer & brass isolation valve

A4 adds poly y-strainer with flush & brass iso valve



Brass Moto	all Valves Full Port			
(Power open, spring return) Max. Temp 250°F				
Part	Size	PSI Max		
ABS-1/2	1/2"	125		
ABS-3/4	3/4"	125		
ABS-1	1"	100		
ABS-1 1/2	1 1/2".	100		
ABS-2	2"	100		

Belimo power open, spring return ball valve Full Port (Power open, spring return) Max. Temp 212°F

Part	Size	PSI Max
ABV-1/2	1/2"	150
ABV-3/4	3/4"	150
ABV-1	1"	150

W Weather shield for ABS & ABV valves, poly

Brass Motorized Paddle Valves

Max. Temp 250°F

Part	Size	PSI Max
AEC-1/2	1/2"	50
AEC-3/4	3/4"	25
AEC-1	1"	15

ASCO - Brass Solenoid Valves

Max. Temp 125°F

Part	Size	PSI Max
ASCO- 1/2	1/2"	150
ASCO-3/4	3/4"	150
ASCO-1	1"	125

Brass Solenoid Valves Zero PSI Differential Max. Temp 140°F Part **PSI Max** CV Size SO -1/2 SO-3/4 3/4"............ 145 10.5 1"......14512.9 SO-1 1.5"......35.1 SO-1 1/2 SGO -1/2 SGO-3/4 SGO-1

Plastic Solenoid Valves 2-150 psi

Max. Temp 125°F

SPV-1 1" Heavy Duty Thermoplastic

Advantage Controls can help you source other valves and sizes not shown here. Consult factory for pricing and availability.

Valve Options and Parts

P Pre-wired with an 8' cord C For conduit connections

L UL Listed valves

SGO-1/2-Kit

SGO-3/4-Kit

H-CONN Connector for SG & SO Valves

F3 3 gpm PVC flow control F5 5 gpm PVC flow control

Add -24V for 24 Volt or -230V for 230 Volt

ABS-SHIELD-ASM ABV-SHIELD-ASM

Plumbing Parts

YP-3/4 3/4" poly Y strainer, flushable
Y Strainer 3/4" Black Iron 20 Mesh Screen

BL-1 1" Non Clear Flushable Basket Strainer BL-3/4-BLK 3/4" Non Clear Plastic Basket Strainer

BL-3/4-GASKET Gasket for BL-3/4
BL-3/4-BOWL Bowl for BL-3/4

BL-3/4-SCREEN Strainer screen for BL-3/4

BV-3/4 3/4" PVC Ball Valve GV-3/4 3/4" (200 psi) Brass Ball Valve

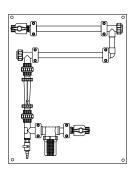
PTS-3/4 3/4" Plastic Basket Strainer / Flushable PTS-1.5 1-1/2" Plastic Basket Strainer / Flushable

Corrosion Coupon Racks

Advantage coupon racks are mounted on a polyethylene panel with inlet and outlet ball valves for easy installation.

Standard 3/4" & 1" PVC and 3/4" CPVC models use our unique quick disconnect coupon holders that require no tools, making coupon inspection and removal fast and easy.

Note: Options selected may reduce pressure ratings.



3/4"PVC Sch 80 120 PSI @ 125°F MODEL ACR-10 ACR-20 ACR-30 ACR-40 ACR-50 ACR-60	3/4" CPVC Sch 80 80 PSI @ 180°F MODEL ACR-12 ACR-22 ACR-32 ACR-42 ACR-52 ACR-52 ACR-62
1"PVC Sch 80 120 PSI @ 125°F ACR-11 ACR-21 ACR-31 ACR-41 ACR-51 ACR-61	1" CPVC Sch 80 80 PSI @ 180°F ACR-13 ACR-23 ACR-33 ACR-43 ACR-53 ACR-63
3/4" Black Iron 300 PSI @ 300°F ACR-15 ACR-25 ACR-35 ACR-45 ACR-55 ACR-65	1 " Black Iron 300 PSI @ 300°F ACR-18 ACR-28 ACR-38 ACR-48 ACR-58 ACR-68
3/4" Stainless Steel 300 PSI @ 300°F ACR-19 ACR-29 ACR-39 ACR-49 ACR-59 ACR-69	

Options

Α	Flow Control Orifice, 3 gpm
B-2	Flow Indicator 6" long, 1-10 gpm 325 psi, 212°F max
B-7	Flow Indicator 7.5" long, 1-10 gpm 100 psi, 125°F max
С	Flow Control Orifice, 5 gpm
E	Sample Tee with Valve
F	Back Flow Check Valve
G	Basket Strainer
Н	Steel Y-Strainer
J	Provide Clear PVC Piping over Coupon - price is per coupo
	0 11 2 11 5 11 2 1

- on
- Κ Omit 3/4" Ball Valves K-1 Omit 1" Ball Valves
- 3/4" FNPT for use with Corrator Probes Includes Pipe Plug for 3/4" & 1" PVC Racks only
- U Unassembled
- Χ Special Option--Customer defined

Coupon Rack Parts

ACR-CH Complete 3/4" PVC Holder

ACR-CH-1 Complete 1" slip PVC quick release Holder

ACR-CH½ ½" PVC Coupon Holder
ACR-CHB Black Iron Coupon Holder ¾"
ACR-CH-QH Complete ¾" PVC Holder; no tee

ACR-NHW Nylon Hardware

ACR-CHSS Coupon Holder 3/4" MNPT, 304 Stainless Steel

BV-3/4 PVC Ball Valve for ACR E-30 "O" Ring Seal for Holder

FLOW-75-10 Flow Indicator, 3/4" MNPT, 7.5" long, 100 psi and 125°F

FLOW-3/4 Flow Indicator, 3/4" MNPT, 9.5" long

FLOW-¾-BR Flow Indicator, ¾" MNPT, 9.5" long with brass fittings

FLOW-1 Flow Indicator, 1" MNPT, 9.5

FLOW-2HT Flow Indicator, 1" MNPT, 325 psi and 212°F max O-ring for all flow indicators except FLOW-2HT

OR-3-BE Flow Restrictor - 3 GPM, Brass
OR-3-BEP Flow Restrictor - 3 GPM, PVC
OR-5-BE Flow Restrictor - 5 GPM, Brass
OR-5-BEP Flow Restrictor - 5 GPM, PVC
OR-8-BE Flow Restrictor - 8 GPM, Brass
OR-8-BEP Flow Restrictor - 8 GPM, PVC
OR-10-BE Flow Restrictor - 10 GPM, Brass

T-C Coupon Holder T only

T-ADAPT Quick disconnect coupon opening to 1" slip adaptor

T-ADAPT-W Quick disconnect coupon opening to 1" slip adaptor with larger I.D.

Corrosion Deposit Monitor

Portable System for on-site evaluation of water treatment performance by simulating actual heat exchange conditions. Includes a flow meter and corrosion coupon holder.

ADPM-1 120 VAC **ADPM-2** 240 VAC

Option

A Digital readout of heater voltage, incoming water and skin temperature of corrosion tube.

W Removes metal frame for wall mounting

Corrosion Rack, Monitor & Deposit Parts

Coupons		Specimen Tub	es
AMS	Mild Steel	AMS-T	Mild Steel
ACO	Copper	ACO-T	Copper
AS4	304 Stainless Steel	AS4-T	304 Stainless Steel
AS5	316 Stainless Steel	AS5-T	316 Stainless Steel
ANK	Nickel	ANK-T	Nickel
ABR	Brass	ABR-T	Brass
ABA	Aluminum	Corrosion Tip	s
AGS	Galvanized Steel	CE-MS	Pair of Mild Steel
Scale Coupon		CE-CO	Pair of Copper
ASC-5	316 Stainless Steel	CE-BR	Pair of Brass
Note: Addition	al soupen meterials and styles available:	CE-CN	Pair of Cupro-Nickel

Note: Additional coupon materials and styles available; consult factory for details.

FIREROD-115-1 Heating rod for ADPM-1

FIREROD-115-1A Heating rod for ADPM-1A with connectors

FIREROD-220 Heating rod for ADPM-2

FIREROD-220-2A Heating rod for ADPM-2A with connectors

CE-AL

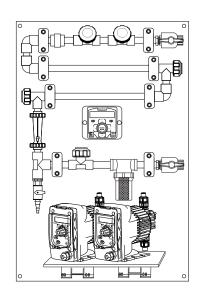
Pair of Aluminum



P = 2 pump shelfR = Mounting railsU = 1/2" blue poly panel

Loop Guard prepackaged units provide a more professional approach to closed loop feed and monitoring. A Loop Guard and separately ordered NanoTron and/or pumps allow for automated feed of closed loop treament. Add NanoTron corrosion monitors for an even higher level of automation.

Loop Guard prepackaged closed loop systems provide an all-in-one panel with coupon holders, isolation valves, injection tees, sample port and back check.



LG - ___ __ _

3/4" PVC	ons ———— 1" PVC	3/4" Iron	1" Iron	
2 holders A2 4 holders A4	A12 A14	A22 A24	A32 A34	
corrator Sensor Ports = (2) Advantage quick re 1 = (2) Advantage quick re 2 = (2) 1" FNPT ports in 1"	lease 1" PVC			
controller Space & Mounting 0 = No controller space 1 = Room for 1 NanoTron 2 = Room for 2 NanoTrons 3 = Room for 3 NanoTrons 4 = Room for 1 MegaTrons		der controller and/	or pumps separately) ———
Sensor Tees O = (1) 3/4" PVC quick rele				
D2 = (2) 3/4" PVC quick rele D3 = (1) 1" Iron tee	ases			
D2 = (2) 3/4" PVC quick rele D3 = (1) 1" Iron tee D4 = (2) 1" Iron tees Strainer Options E = 3/4" basket E1 = 3/4" flushable y E2 = 1" basket	E3 = E4 =	3/4" Black iron 10" poly filter cold 10" poly filter hot		
D2 = (2) 3/4" PVC quick rele D3 = (1) 1" Iron tee D4 = (2) 1" Iron tees Strainer Options E = 3/4" basket E1 = 3/4" flushable y	E3 = E4 = E5 =	10" poly filter cold		

Prefabricated Systems

Wall Mounts

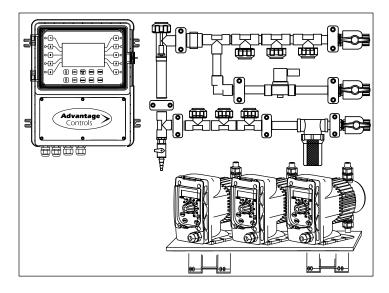
Full size wall mounts for a controller, 1-4 plumbing loops, pumps and accessories make a professional installation easy and saves you time and money.

Start with WM and code for number of plumbing loops and panel material desired, "WM2". Then select options A-J for each loop. If additional loops are the same, use a -X2, X3 or X4. After all loops are built, list whole unit options: WM2-AB3D3FJ-X2.

NOTE

- Multi-loop panels may come in sections.
- 2. Option "H" on wall mount units are not available on multi-loop panels.

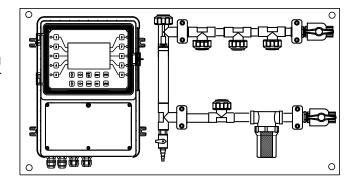
Build one to your specs on the next page.



Controller Mount Boards

Controller mount boards are a low cost option making installation fast and easy on compact poly boards for controller and sample stream assemblies.

Build one to your specs on page 20.

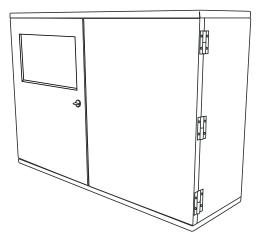


Fully Enclosed Cabinets

The FE series of fully enclosed pre-fabs provide a safe and secure professional installation that saves time and money while protecting your water treatment equipment from the elements and tampering.

Choose a PVC or painted steel cabinet and a wide range of options to meet your specific installation requirements.

Build one to your specs on page 21.



All Prefabs Please Note:

- Controller, pumps, and bleed valves are ordered separately. Panel dimensions may vary depending upon options and controller selections.
- If ordering option "C" for probes, a 3/4" PVC 90° flow tee is automatically included on 3/4" & 1" PVC loops. If a 1" PVC straight flow tee is needed, add a 1 before the "C" # (i.e. C12 for 1" flow tee and two 3/4" probe tees). If no 3/4" PVC 90° flow tee is desired, add a 0 before the "C" # selected (i.e. C02)

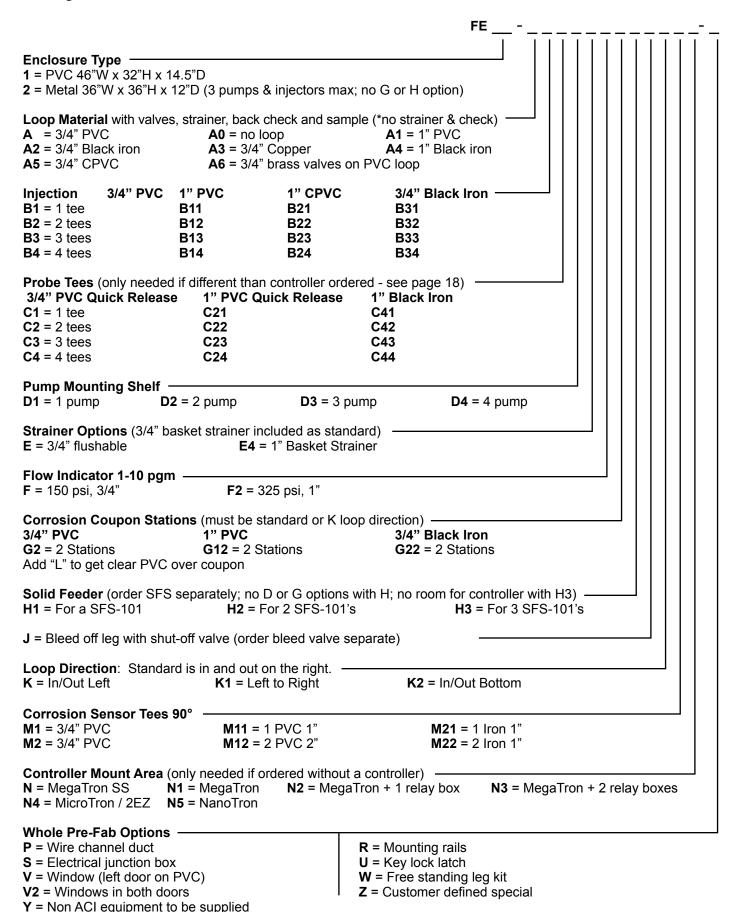
Wall Mounts

		,	WM
Number of Plumbing Loo	ps on 3/8" White Poly Par	nel (add to base) ——	
1 Number of Plumbing Loo 21 2	2 3 ps on 1/2" Blue Panel (add 22 23	d to base)	
Loop Material With valves A = 3/4" PVC A2 = 3/4" Black iron A5 = 3/4" CPVC	A0 = no loop A3 = 3/4" Copper A6 = 3/4" brass valves	A1 = 1" PVC A4 = 1" Black i	·
B3 = 3 tees B 6		3/4" Black Iron B31 B32 B33 B34	1" Iron — B41 B42 B43 B44
Probe Tees (only needed i 3/4" PVC Quick Release C1 = 1 tee C2 = 2 tees C3 = 3 tees C4 = 4 tees			
Pump Mounting Shelf — D1 = Shelf for 1 D4 = Shelf or 4	D2 = Shelf for 2 D5 = Shelf for 5	D3 = Shel D6 = Shel	
Strainer Options (3/4" bas E = 3/4" flushable	sket strainer included as st E2 = 3/4" 10" filter housir		basket strainer
Flow Indicator 1-10 pgm F = 150 psi, 3/4"	F2 = 325 psi, 1"		
Coupons 3/4" PV0 G1 = 1 Station G2 = 2 Stations G3 = 3 Stations Add "L" to get clear PVC ov	C 1" PVC G11 = 1 Station G12 = 2 Stations G13 = 3 Stations ver coupon.	3/4" Black I G21 = 1 Sta G22 = 2 Sta G23 = 3 Sta	tion tions
Solid Feeder (order SFS s H1 = For a SFS-?01	eparately / D1 or D2 availa H2 = For 2 SFS-?0		tion with H2)
J = Bleed off leg with shut J1 = Bleed off leg with shut			separate)
Loop Direction: Standard K = In/Out Left	is in and out on the right. K1 = Left to Right	K2 = In/O	ut Bottom
Corrosion Sensor Tees 9 M1 = 3/4" PVC M2 = 3/4" PVC	0°		= 1 Iron 1" = 2 Iron 1"
Controller Mount Area (or N = MegaTron SS N1 N4 = MicroTron / 2EZ N5	l = MegaTron N2 = Me		N3 = MegaTron + 2 relay boxes
Whole Pre-Fab Options P = Wire channel duct S = Electrical junction box W = Free standing leg kit		R = Mounting rails (red T = Weather shield 37 Z = Customer defined	" wide max

Controller Mount Boards

				CM
Board Dimensions an 05 = 24" wide x 18" tal 10 = 34" wide x 18" tal 20 = 52" wide x 18" tal	I board for single I board for single	loop only, no co controller and le	ontroller mount area	
Loop Material With iso A = 3/4" PVC A2 = 3/4" Black iron A5 = 3/4" CPVC	A0 = r A3 = 3	no loop	A1 = 1" P\ A4 = 1" BI	VC ack iron
Injection Tees ——				
3/4" PVC		1" CPVC	3/4" Black Iron	
B1 = 1 tee B2 = 2 tees	B11 B12	B21 B22	B31 B32	B41 B42
B3 = 3 tees	B13	B23	B33	B42 B43
B4 = 4 tees	B14	B24	B34	B44
D4 - 4 1003	D 14	DET	D04	
Probe Tees (only need 3/4" PVC Quick Released 1 = 1 tee C2 = 2 tees C3 = 3 tees C4 = 4 tees		in controller orde Quick Release	ered - see page 18) 1" Black Iron C41 C42 C43 C44	
Strainer Options (Not E = 3/4" Basket E5 = 3/4" Black Iron Str	E1 = 3/4" F		E4 = 1" Basl	ket Strainer
Flow Indicator 1-10 pg F = 150 psi, 3/4"		325 psi, 1"		
J = Bleed off leg with sh	nut-off valve (ord	er bleed valve s	eparate)	
Loop Direction: Stand K = In/Out Left		nd out on the rig eft to Right	ht. K2 = In/Ou	ut Bottom
Corrosion Sensor Tee	s 90° ———			
M1 = 3/4" PVC		: 1 PVC 1"		= 1 Iron 1"
M2 = 3/4" PVC	M12 =	= 2 PVC 2"	M22 =	= 2 Iron 1"
Controller Mount Area N = MegaTron SS N4 = MicroTron / 2EZ	N1 = MegaTron	N2 = Mega	a controller) ——— Tron + 1 relay box	N3 = MegaTron + 2 relay boxes
Q = Backcheck				
Whole Pre-Fab Option P = Wire channel duct S = Electrical junction b U = 1/2" Blue poly pane Z = Customer defined s	oox el		R = Mounting rails T = Weather shield V = No panel (una	d (37" wide max)

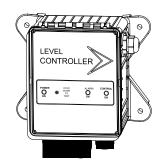
Fully Enclosed Cabinets



Liquid Level Alarm Fill Controllers

ALL low level units prevent chemical metering pumps from pumping dry and provide an alarm LED and relay notification of the low level condition.

FILL units automate filling of a tank with a control relay output based on a low "ON" and high "OFF" level switch input.



ALL-100	Designed for use with 100 gallon tank. Level controller with 60" wand 120 VAC, 60 Hz, 5 amp receptacles labeled PUMP and ALARM
ALL-50	Designed for use with 50 gallon tank. Level controller with 42" wand 120 VAC, 60 Hz, 5 amp receptacles labeled PUMP and ALARM
ALL-30	Designed for use with 30 gallon tank. Level controller with 30" wand 120 VAC, 60 Hz, 5 amp receptacles labeled PUMP and ALARM
ALL-C	Level Controller only (less wand)
ALL-D	Dual Input Level Controller (less wand)
FILL-C00	Fill controller only with no level wands
FILL-C35 FILL-C55	Fill controller only with 2 wands sized for an Advantage 35 gal. tank Fill controller only with 2 wands sized for an Advantage 55 gal. tank

Options

C 240 V

Ε Extra Output Cord

High alarm input on FILL unit with control cut-off and 120 volt alarm output (no wand) Н H1 High alarm on FILL unit with control cut-off and dry contact alarm output (no wand)

LED LED on Level Wand

Switch For Output (ON/OFF) S

V Audible Alarm with Silence Switch, 100 db

Level Wands Only

ALL-S60	Level Wand adjustable to 60" with switch contacts 28 VDC 50 mA
ALL-S42	Level Wand adjustable to 42" with switch contacts 28 VDC 50 mA
ALL-S30	Level Wand adjustable to 30" with switch contacts 28 VDC 50 mA
ALL-S12	Level Wand adjustable to 12" with switch contacts 28 VDC 50 mA

Flow Controller

FL-1 Preplumbed Flow Controller with 3/4" female slip connection

Options

Ε Additional Female Output Cord, Both On with Flow F Additional Output Cord, 1 On with Flow, 1 Off with Flow G Additional Output Cord, 1 On with Flow, 1 On with power Н Additional Output Cord, 1 Off with Flow, 1 On with power 1/2" NPT Fittings Supplied For Flow Input and Output ı

Additional Output Cord, Both Off with Flow J

No flow switch, 6' two wire lead Κ

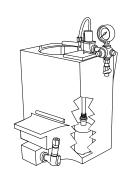
Conduit Connections L

L2 1" flow assembly with 1-20 gpm flow indicator

Solid Feed Systems

SFS solid feed systems include a dissolving bowl with a 0.6 gpm at 10 psi spray nozzle; shut-off valves on inlet water and pump suction connection, pressure regulator, solenoid, Y-strainer and level switches (most models).

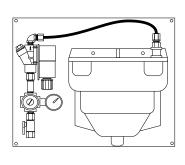
Level switches are pre-set to maintain a max of approximately 2.5 gallons. Units with the 120-volt level controller have a relay test switch, LED for power and control with a lockable clear cover.

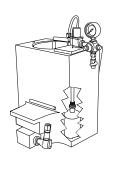


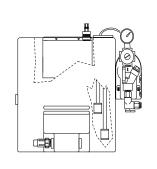
SFS-G01	Single dissolving bowl in a tank with non-electric make-up valve
SFS-G02	Dual dissolving bowls in a tank with non-electric make-up valve
SFS-101	Single dissolving bowl in a tank with 12 VDC controller
SFS-105	Single dissolving bowl and tank with 120 VAC controller on panel
SFS-205	Two dissolving bowls with pressure regulators, one solution tank
SFS-305	Three dissolving bowls with pressure regulators, one solution tank
SFS-10	Dissolving bowl with 120 volt solenoid, pressure regulator, no tank or controller
SFS-20	Two dissolving bowls with one 120 volt solenoid, regulator, no tank or controller
SFS-T01	Dissolving bowl with battery powered timer valve, regulator and gauge on panel

0	pti	ons	

Options	
Α	Conduit connections
A2	240 volt with conduit connections
B1	Back check in pump suction line
C2	Dissolved solution low conductivity switch control for 205, 305 & 405 models
D	1" FNPT port on the top of the tank for conductivity probe (not needed with C2)
D2	Adjustable level wand for external monitoring
E	10' of 3/4" I.D. clear tubing for overflow
F	Adds booster pump to 120 volt models
G	Blue back panel for 105, 205, (double the price for 305, 405)
H	High Level Alarm Cut-off with LED and Alarm Relay Output on 120 volt models
H2	Adds a high level cut-off to SFS-101 controller
H3	High alarm with cut-off and second brass solenoid N.O. on 120 volt units
H4	High level cut-offs on SFS-201, 120 volt module and N.O. brass shut-off valves
L	Provide 120 volt level controller for remote mounting with SFS-101
Р	Non Advantage Controls metering pump mounting adaptor
R1	Remove pressure regulator from 205, 305 & 405 (R2, R3 to remove more than 1)
T2	Dual timer controller for SFS-205 (T3, T4 for 3 or 4 timers)
V	Viton seats in electric solenoid valve
W	Adjustable wands









SFS-10

SFS-G01

SFS-101

SFS-G02

Solid Feed Systems - continued

Parts

R00223 SS Wall Mounting Bracket

SFS-BV Brass Inlet Valve

SFS-C01 12 volt controller for 101 and 201 models

SFS-C?05 120 volt controller for ?05 models, list 105, 205, 305 to match

SFS-C05-H 120 volt controller for 05 models with option H

SFS-DB-1 Dissolving Bowl (New Advantage PVC bowl assembly)

SFS-DB-ARM-1 Spray arm for dissolving bowl (New Advantange PVC spray arm assembly)

SFS-E4A Replacement probe for conductivity switching units

SFS-LF Individual Float Switch
SFS-LF-1 1 Level Float Assembly
SFS-LF-2 2 Level Float Assembly
SFS-LF-2-FH01 Level wands for SFS-FH01
SFS-LF-3 3 Level Float Assembly

SFS-LF-G01 Level float and inlet valve assembly for SFS-G01 (no gauge, regulator, or strainer)

SFS-LF-G02 Level float and inlet valve assembly for SFS-G02 (no gauge, regulator, or strainer)

SFS-PA-101M Plumbing assembly for 101M (includes solenoid, inlet valve, pressure regulator & gauge)

SFS-PA-G01 Plumbing assembly for G01 & G02 (includes inlet, y-strainer, pressure regulator & gauge)

SFS-PG Pressure Gauge SFS-PR Pressure Regulator

SFS-SB-12V Brass solenoid valve with y-strainer 12 volt D.C. SFS-SB-120V Brass solenoid valve with y-strainer 120 volt A.C.

SFS-SB-KIT Repair kit for 12V or 120V solenoid valves

SFS-SUCTION Outlet pump suction assembly SFS-TANK-101 Replacement tank for the SFS-101

SFS-TANK-205 Tank only for 205

SFS-TANK-G01 Replacement tank for the SFS-G01

SFS-TIP-LP Low pressure spray tip

SFS-WT Wall transformer for 12 volt D.C. models

2C4A000051 1/2" MNPT to 1/4" FNPT reducer for pump suction on tank

2C4A000056 Overflow elbow

2C4A000059 Replacement spray nozzle

2C4A000060 1/2" tubing x 1/4" MNPT connector



Mounting Panels for SFS Feeders

SFS-PANEL-2 1/2" blue poly panel for 2 SFS-G01, or 101 (34" x 24") SFS-PANEL-3 1/2" blue poly panel for 3 SFS-G01, or 101 (46" x 24") SFS-PANEL-32 1/2" blue poly panel for 3 SFS-G02 (60" x 24")

Options for SFS-PANEL

A 3/4" PVC freshwater header with shut-off

W Free standing leg kit

Glycol Feeder for Closed Loop Systems

GF -

Tank Selection -

- 0 = No tank
- 1 = 55 gallon poly
- 2 = 100 gallon poly
- 3 = 30 gallon poly
- 4 = 50 gallon carbon steel
- 5 = 5 gallon (no stand, 30 gpd pump only)
- 7 = 150 gallon poly

Stand Selection

- A = Painted steel stand
- B = Painted steel stand w/ mixer bracket
- C = Tank top mount (no tank included)
- D = Portable stand with built in rollers
- E = No stand (for 5 gal tanks)

Pump Selection

*Dual pump sys. require 2 pump selections (i.e., -11)

- 0 = No pump
- 1 = 1.5 gpm at 100 PSI; 1/3 hp
- 2 = 3.75 gpm at 100 PSI; 1/2 hp
- 3 = 6.1 gpm at 60 PSI; 1/3 hp
- 4 = 10 gpm at 60 PSI; 1/2 hp
- 5 = 30 gpd at 100 PSI; solenoid driven

Pump Configuration

- A = Standard configuration
- B = Alternating pumps for single loops (requires 2 pump selections)
- C = Pump plumbed for transfer duty into tank

Loop Selection -

*Dual loop sys. require 2 loop selections (i.e., -11)

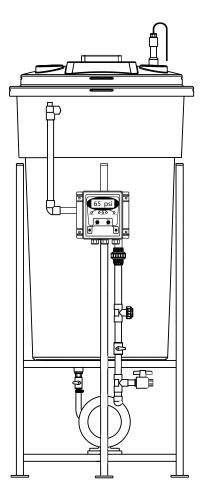
- 0 = No loop
- 1 = Sch 80 PVC loop; 100 PSI max; 100°F max
- 2 = Copper/brass loop; 100 PSI max; 180°F max
- 3 = Carbon steel loop; 100 PSI max

Control Selection

- A = Digital controller w/ 0-100 PSI 4-20mA output sensor for 30 gal & + sizes
- C = Analog 5-20 PSI switch for 5 gal tank w/ 30 GPD pump
- D = Pressure transducer, level wand and pump starter relay for use with separately ordered MegaTron or SS with 4-20mA input ability
- E = Manual pump control; no pressure switch or level wand
- F = Digital controller for dual loops with two sensors

Options

- 1 = 240V
- 2 = 4-20mA output of pressure on digital controller
- 3 = Solenoid valve for pressure relief on digital units
- 4 = 30-50 PSI pressure switch for analog units
- 5 = Position back check to use tank for expansion
- 6 = High alarm on digital units
- M = Mixer controls (order mixer separate)
- S = ON/OFF switch
- Y = ETL approval (only on units with controller option D)



Most Popular Model

GF-1A1A1A

with user friendly digital controls

Glycol Feeder Parts

DALL-GF-V Digital controller with relays & 4-20mA output (sensors not included)

AGF-PS Standard pressure switch (30-50 PSI)
AGF-LPS Low pressure switch (5-20 PSI)
AGF-PRV Pressure relief valve (brass)

CKV-3/4PP Back Check Valve

991F41 1.5 GPM Pump at 100 PSI; 1/3 HP Motor 992MJ07 3.75 GPM Pump at 100 PSI; 1/2 HP Motor AGF-PTD Pressure transducer for digital glycol feeder AGF-BLS Bowl strainer for suction side of pump

AGF-PG Pressure gauge

AGF-SUCTION Pump suction assembly; shut-off and strainer AGF-APCT-55 Replacement 55 gallon tank for glycol feeder

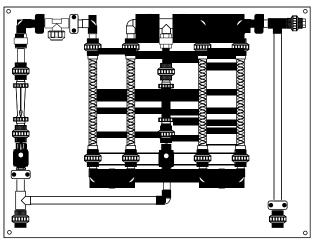
Replacement plumbing assemblies can be ordered for glycol feeders by putting a prefix of **PA** in front of the glycol feeder model number (i.e. **PAGF-1A1A1A**). It will include isolation valves, pressure gauge, pressure relief valve and back check (the pressure transducer AGF-PTD is not included).

Polymer Feed Stands

Unit is constructed of corrosion resistant plastic and includes: 3/4" PVC sample stream, inlet valve, flow indicator (1-10 gpm), back check valve, chemical injection point, and static mixer.

PFS-01 Stand alone single mixer and flow indicator + pump mount area

PFS-04 Wall mount poly panel with 4 mixers and 2 flow indicators



PFS-04

Options

A	Omit Sample Stream

Antisyphon back pressure valve500 cc draw down column

O--: 1 C----- 1- Ct----

F Flow Controller, mounted complete with flow switch in the sample line

G Flow Switch only, no controller

L Flow indicator for low flow, 0.1 to 1.0 gpm instead of standard 1-10 gpm

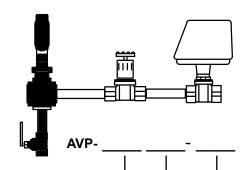
L2 1" flow assembly with 1-20 gpm (PFS-01 only)

L3 3/4" CPVC flow assembly with brass fitting flow indicator (PFS-01 only)

W Metal stand for PFS-04V Gate Valve on outlet

Build Your Own Boiler Valve Package

With the AVP valve package, select the blowdown valve and flow restrictor that meets your boiler application's requirements and Advantage Controls will pre-assemble it with a probe cross to insure that you get a correct plumbing configuration.



ELECTRIC BLOWDOWN VALVE

00	=	SG2-1/2 brass solenoid valve, 13-50 min/max psi
10	=	SGB-1/2 brass solenoid valve, 13-140 min/max psi

..... 30 = MBWB-1/2 motorized ball valve SS, 360° actuator, 0-450 min/max psi diff 40 = MBWA-1/2 motorized ball valve SS, 90° actuator, 0-450 min/max psi diff

..... 60 = SOB-1/2 brass solenoid valve, 0-140 min/max psi diff

FLOW RESTRICTING DEVICE -

..... 00 = AOU-1 orifice union with 4 plates, 1000 psi max 10 = FCS-1/2 flow control valve SS, 200 psi max 20 = FC-1/2 flow control valve, 800 psi max

Change 2nd digit of code to 1 for 3/4" or 2 for 1" connection: AVP-61-11

Options -

Options	
Α	Adds second flow restricting device for continuous sampling
	Note: Add price of selected flow valve twice to price of package
С	3/4" probe tee instead of 1"
F	Add a 3/4" flush ball valve on bottom of probe cross (150 PSI max)
Υ	Add 1/2" Y-strainer with flush valve before blowdown valve
Y1	Add 3/4" Y-strainer with flush valve before blowdown valve
P	Mount AVP and separately ordered controller onto poly board and pre-wire

Boiler Solenoid Valves

SOB-1/2	1/2" Valve, 0-140 psi, rated to 356°F
SOB-3/4	3/4" Valve, 0-140 psi, rated to 356°F
SGB-1/2	1/2" Valve, 13-140 psi, rated to 350°F
SGB-3/4	3/4" Valve, 13-140 psi, rated to 350°F

Motorized Ball Valves, 0-450 psi, Rated to 459° With 360° Electric Actuators

MBWB-1/2 1/2" Valve With 1036 Actuator
MBWB-3/4 3/4" Valve With 1036 Actuator
MBWB-1 1" Valve With 1036 Actuator
MBWB-1 1/2" Valve With 1036 Actuator
MBWB-2 2" Valve With 2036 Actuator

MBWB-1/2-230V 1/2" Valve With 1036 Actuator for 240VAC service

Motorized Ball Valves, 0-450 psi, Rated to 459° With Heavy Duty 90° Electric Actuators

MBWA-1/2 1/2" Valve With 1075 Actuator 3/4" Valve With 1075 Actuator MBWA-1 1" Valve With 1075 Actuator MBWA-2 2" Valve With 2075 Actuator

Motorized Ball Valves, 0-1000 psi, Rated to 650°F, Extra Heavy Duty 90° Electric Actuator

MBWC-1/2 1/2" Valve with 1275 Actuator MBWC-3/4 3/4" Valve with 1575 Actuator MBWC-1 1" Valve with 2075 Actuator

Motorized Ball Valve Parts

MWB 1036 Actuator Only MWA 1075 Actuator Only

AWS-1/2 1/2" Valve Only, carbon steel body, 316 SS stem & ball 3/4" Valve Only, carbon steel body, 316 SS stem & ball

AMK-9 Mounting Kit for 1036 Actuator AMK-10 Mounting Kit for 1075 Actuator

MBW-CPL Coupling for Motorized Ball Valve 1036

MWBS Micro switch for activator

Economy SS Flow Control Device for 200 psi with position indicator (not a shut-off valve)

FCS-1/2 1/2" FCS-3/4 3/4" FCS-1 1"

Boiler Rated Flow Control Valves

FC-1/2 1/2" 800 psi FC-3/4 3/4" 800 psi FC-1 1" 800 psi

AOU-1 1" Forged Steel Orifice Union with 4 Orifice Plates - 1000 psi

AOUP Set of 4 Stainless Steel Orifice Plates

Includes 1/8", 3/16", 1/4", 5/16" Orifice Sizes.

AOUP-1 1" Blank Plate, SS

Diverter Valves, Carbon Steel Body, Teflon Seals

MBWD-1/2 1/2" MBWD-3/4 3/4" MBWD-1 1"

Sample Cooler

LBC Sample Cooler With 316 SS Tubing, Tube & Connections

Plain 1/4" OD Tube End (2500 PSI Hot Coil / 250 PSI on Cold Shell)

Advantage Controls can help you source other valves and sizes not shown here. Consult factory for pricing and availability.

Specialty Sensors

SKIDSENS Fouling Sensor by Neosens

MOUNTING OPTIONSA = No teeC = 3/4" quick release PVC 90 (gray)E = 1" male slip PVC quick release fitting POWER SUPPLY1 = No power supply4 = 90-264 VAC to 24 VDC power supply (with USA cord)5 = 90-264 VAC to 24 VDC power supply (no cord) LOOP ISOLATIONL = 4-20mA loop isolator on power supply

NEW>

Free Chlorine Sensor

WG-FC02-ASM 0-2 PPM free chlorine sensor and flow assembly

(flow cell, flow indicator, regulator, gauge and mounting board) 10 PSI max

WG-FC02 0-2 PPM free chlorine sensor (sensor only) 10 PSI and 0.2 GPM **WG-FC05** 0-5 PPM free chlorine sensor (sensor only) 10 PSI and 0.2 GPM

Replacement Parts

FLOW-25-01 0-1 GPM flow indicator with 1/4" FNPT connections

WG-PG
SFS-PR
1/4" FNPT pressure guage
1/4" FNPT pressure regulator
WG-FLOW
Flow tee only for WG sensors
WG-PTD
Pressure transducer 0-100 PSI

Blue Track Sensor

OP-1 Blue Track optical sensor OP-1-FLOW Blue Track flow assembly

OP-1-ASM Blue Track sensor and flow assembly

NEW.

DC POWER SUPPLY ONLY

PSDC-24 90-264 VAC to 24 VDC power supply (with USA cord)

Options

-A 90-264 VAC to 36 VDC power supply (no cord)

-L 4-20mA loop isolator on power supply

Tower Conductivity Replacement Probes

Quick Release Style

E-2-10 Non-Temperature Compensated Probe (A Minus Standard Replacement 10' cord)

E-2SS-10 Stainless Steel electrodes Non-Temperature Comp. (10' cord)
 E-3A-10 Probe, 3-wire with 10' Cord (Standard on original Analog Models)
 E-3ASS-10 Stainless Steel electrodes with A Range Temp.Comp.(10' cord)

E-4A-10 Probe, 4-wire with 10' cord (Standard Replacement MegaTron, MicroTrons and 2EZ)

E-4ASS-10 Stainless Steel electrodes, with 10' cord A Range Temperature Compensation

For the probe and tee assembly add the "T" prefix.

For probes made of CPVC add suffix CPV to end of probe part number.

Threaded Mount Probes

AH-2SS-10 1" MNPT SS Bushing, Insertion Type, 250 psi, 212°F max (no temp comp) (10' cord)

AH-4ASS 1" MNPT SS bushing, conductivity probe, 250 psi, 212°F max AH-4BSS 1" MNPT SS bushing, conductivity probe, 250 psi, 212°F max

Special Type Probes

DC-2 Tank Mounted Conductivity Probe - 2-wire (A Minus) Non-Temp. Comp.

DC-4A Tank Mounted Conductivity Probe - 4-wire Same as DC-4A with Stainless Steel Electrodes

CS-4A Corporation Stop Electrode

DI-4A Direct insertion make up conductivity probe 1" threaded collar & quick release assembly

DI-27-4A High conductivity electrode with 1" quick release assembly

AL-4RTD Pure water probe conductivity probe with RTD temp comp, 3/4" MNPT, 212°F and 100 PSI max

ATE-3A-10 Morr Control Replacement Probe 3-Wire with 10' cord Note: For conductivity probes with longer wires, see page 34.

Boiler Conductivity Replacement Probes

BE-2 1" MNPT SS threads, PEEK core, 50 psi

BE-32 1 or 3/4" MNPT SS threads, Ceramic core, 250 psi @ 400°F / 350 psig @ 265°F (2-wire)

BE-34B 1 or 3/4" MNPT SS threads, 250 psi @ 400°F / 350 psig @ 265°F (4-wire with thermistor)

BE-4RTD 1 or 3/4" MNPT SS threads, Peek core, 4-wire MegaTron RTD, 250 psi @ 400°F / 350 psig @ 265°F

BE-4RTD-S 3/4" MNPT SS threads, Peek core, 4-wire MegaTron RTD, 250 psi @ 400°F / 350 psig @ 265°F

BE-5ME Special High Temp / psi probe all Stainless Steel 1000 psi max

BE-5MEC BE-5ME Complete With Cross and Flush Valve.

1C 1" FNPT Steel Cross

3/4° FNPT Steel Cross for BE-4RTD-S Probe

Notes:

1. To make boiler probes (except BE-5ME) a complete probe and cross assembly add a suffix of C to the

end of the part number.

2. A Range Temp Compensation = 32-140°F (0-60°C) B Range Temp Comp = 32-212°F (0-100°C)

pH & ORP Replacement Probes

TPE-21 Complete Probe Assembly Supplied with PVC Tee - 10 ft lead
PE-21 Flat Surface, Double Junction, 10 ft lead, 140°F and 100 PSI max
PE-21H Flat Surface, Double Junction, 10 ft lead, 180°F and 100 PSI max
PE-21SS Double Junction High Temp pH Probe in a SS body 212°F; 1/2" MNPT

PE-11 Low ionic pH probe, 10 ft lead, 180°F and 100 PSI max

PE-21CS Corporation stop pH sensor assembly

TOE-21 Complete Probe Assembly Supplied with PVC Tee-10 ft lead

OE-21 Flat Surface ORP Replacement Probe 10 ft lead, 140°F and 100 PSI max
OE-21H Flat Surface ORP High Temperature (180°F Max) Replacement Probe, 10 ft lead
OE-21SS Double Junction, High Temperature ORP Probe in a SS Body 212°F; 1/2" MNPT

OE-11 Low ionic ORP probe

TC-1 Temperature Sensor for MicroTron (Standard) 140°F and 150 PSI max

pH & ORP Probe Parts

T-3 Tee Only

E-30-PH O-Ring (For New pH Probe)

PE-NUT Probe Assembly Nut

RTP-1 pH Transmitter; Non-Replaceable Battery Powered with BNC Connections

RTP-3 pH Transmitter with Power Supply and Multiple Wire Connections

DPE Tank Mounted pH/ORP Probe Assembly (less probe)

PH-EXT-10 pH Cable Extension, 10 feet pH-EXT-50 pH Cable Extension, 50 feet

BNC-ADPT BNC to two wire adaptor for pH /ORP probes

T-ADPT Quick disconnect pH/ORP probe opening to 1" slip adaptor

Miscellaneous PVC Quick Release Probe Assembly Parts

3/4 MNPT-KIT 2 PVC nipples, 3/4" male slip on one end and 3/4" male thread on the other end

T-3 Tee Only
T-3-CPV CPVC Tee Only

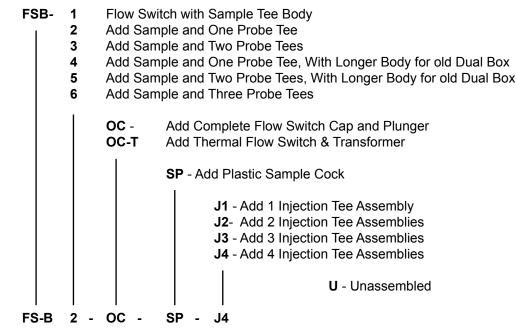
E-30 O-Ring (For T-2, T-3, T-4 assembly)

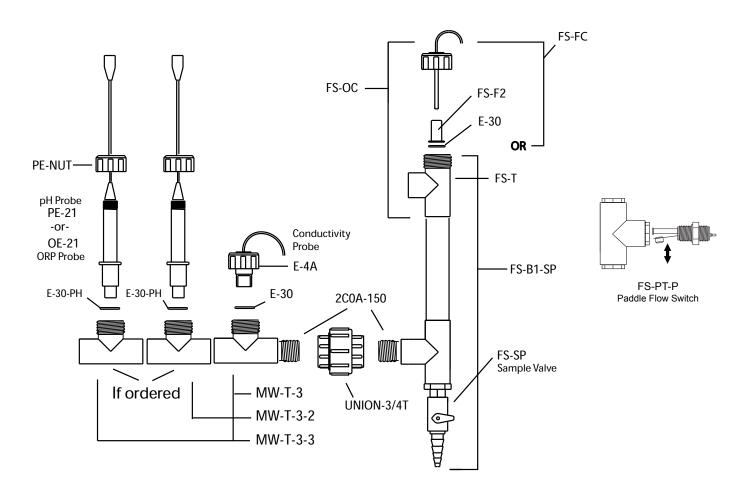
PLUG-T3 Plug for T-3 tee complete with nut, o-ring and plug

MW-T-3 Single Probe Tee with 3/4" MNPT on one end and 3/4" slip on the other

MW-T-3-2 Dual Probe Tee assembly with 3/4" MNPT on one end and 3/4" slip on the other

Build a Replacement Flow Assembly (Probes not Included)





Flow Assembly Parts

FS-C2 Dual read switch flow switch

FS-CPV Flow Switch - CPVC Cap and Reed Switch **FS-0CPV** Complete CPVC Flow Switch Assembly Flow Switch - Gray Plunger and Magnet

FS-FC Flow Switch, clear PVC cap, reed switch, plunger, spring, o-rings and float

FS-SPRING Spring for FS-C mechanical style flow switch

FS-SP Sample Ball Valve - PVC

FS-T Flow Switch - Clear PVC Tee (add G to get Gray)

FS-0C Complete Clear Flow Switch Assembly (add G to get Gray)

FSB-1-SP Flow switch and sample tee section **TFS-PWR** Thermal flow switch power supply only

E-30 O-Ring

E-30-PH O-Ring for pH/ORP probes

T-3 Probe Tee with 3/4" PVC slip connections in and out

T-3E 3/4" Tee With Sample Cock

MW-T-3 Single Probe Tee with 3/4" MNPT on one end and 3/4" slip on the other

MW-T-3-2 Dual Probe Tee assembly with 3/4" MNPT on one end and 3/4" slip on the other Triple Probe Tee assembly with 3/4" MNPT on one end and 3/4" slip on the other

2C0A-150 3/4" slip to 3/4" MNPT nipple, PVC **UNION-3/4TT** 3/4" PVC union, FNPT on both sides

FS-HP1 Flow Switch - High Pressure, 1" Brass, 250 psi **FS-HP-2** High Pressure Flow Assembly (no probe)

FS-PT-B Paddle type flow switch with 3/4" brass tee; 250 PSI @ 75°F **FS-PT-P** Paddle type flow switch with 1" PVC tee; 150 PSI @ 75°F

FS-PT Paddle type flow switch (no tee)

T-FS-PT 1" PVC tee for FS-PT

Hand Held Tester

The HanTron series of hand held testers provide accurate conductivity and temperature readings of any water system sample with features normally seen on much more expensive testers including: memory for 20 readings, unit of measure selections and temperature readings at a price comparable to older analog testers.

HT-3P Conductivity tester

HT-PH pH tester



Standard Solutions						
CONDUCTIV	ITY					
C-500-4	500 μS	4 oz.				
C-500-16	500 μS	16 oz.				
C-2500-4	2500 μS	4 oz.				
C-2500-16	2500 μS	16 oz.				
C-5000-4	5000 μS	4 oz.				
C-5000-16	5000 μS	16 oz.				
рН						
pH-4-4	4.0 pH	4 oz.				
pH-4-16	4.0 pH	16 oz.				
pH-7-4	7.0 pH	4 oz.				
pH-7-16	7.0 pH	16 oz.				
pH-10-4	10.0 pH	4 oz.				
pH-10-16	10.0 pH	16 oz.				
ORP						
ORP-4	200-275 mV ORP	4 oz.				
ORP-16	200-275 mV ORP	16 oz.				

Miscellaneous

BOX Enclosure Only - Specify Model

BUZZ-1 Alarm buzzer (100 db) in standard box, pre-wired with 8' male power cord

(-2, -3 or -4 for addition power cord inputs)

CLAMP-ASM-3/4A Adjustable pipe clamp assembly with bolts and t-nuts

CORD-POWER Power Cord -8 foot with plug
CORD-RECPT 8" cord with Molded Receptacle
Clear Lexan cover for enclosure

INJ-COL Injection Tee Collar MA-LOOP-ISO-1 4-20mA loop isolator

MG-CMB 3/8" poly panel for mounting MG with no plumbing area

MICRO-BOX New style MicroTron box with cover

MINI-BUZZ Alarm buzzer in mini box with plug in transformer, 100 db

MS-001 Motor Starter, 25 Amp Relay, conduit connections

MS-002 Motor Starter, 25 Amp Relay, prewired (2 male, 1 female, 17 amp cords)
MS-003 25 amp relay box, 120 pre-wired input with 2 wire dry contact output

MS-003-001 Mounts a MS-003 on poly with seperately ordered NANO-F2

NANO-BOX-3 Nanotron style box with cover and 3 liquid tights 3/8"

SIM-4-20 Simple 4-20mA output simulator SIM-COND Simple conductivity simulator SIM-PH/ORP Simple pH/ORP simulator

SS-CMB 3/8" poly panel for mounting SS with no plumbing area

 WIRE-2
 2 Cord Cable/ft - 22 AWG

 WIRE-3
 3 Cord Cable/ft - 22 AWG

 WIRE-4
 4 Cord Cable/ft - 22 AWG

1A5B000337 Relay output Fuse 5 x 20 MM, 5 AMP

1A9A000015 1/2" liquid tight **1A9A000017** 3/8" liquid tight

1A9A000243A 3/8" liquid tight to 1/2" F conduit

1E0A000044 Right door with window for PVC FE cabinet Left door with window for PVC FE cabinet

1G1F000105 25 amp relay

1M1P000043 120 VAC plugin AC adapter; 24 VDC out

1P1P000219 Relay output Fuse 5 x 20 MM, 2.5 AMP slow blow

Standard Wire Extensions for Conductivity and Flow Sensors

2 conductor, 10' extension **WIRE-2-10C** 2 conductor, 25' extension **WIRE-2-25C WIRE-2-50C** 2 conductor, 50' extension **WIRE-2-75C** 2 conductor, 75' extension WIRE-2-100C 2 conductor, 100' extension **WIRE-4-10C** 4 conductor, 10' extension 4 conductor, 25' extension **WIRE-4-25C WIRE-4-50C** 4 conductor, 50' extension **WIRE-4-75C** 4 conductor, 75' extension WIRE-4-100C 4 conductor, 100' extension

Add an R to the end of the part number for Molex connection.

Note: Order controller with standard probe wire and the extension(s) desired as a separate line item.

Repair Options and Fees

Advantage Controls is proud to offer a two year warranty on all controllers and metering pumps. We back this warranty up with a unique 30 day replacement memo policy. If something happens to your unit after it is out-of-warranty, we still want to help.

Call our technical support staff with the model, serial number and problem of your unit. If we are unable to fix the unit through troubleshooting, we will give you an RMA (return materials authorization) number to send the unit in. The different styles of units (analog timers, analog controllers, MicroTron controllers and pump) each have a Repair List Price. Normal replacement items are not included (i.e. probes, flow switches, liquid ends)

HT-3P

Analog Timers, Liquid Level and Flow Controllers

Analog Controllers (AM, 2-AM, B7M, 2-B7M etc...)

MicroTron Controllers (with 1 or less probe inputs)

MicroTron Controllers (with 2 or more probe inputs)

MegaTron

MegaTron SS (with 1 or less probe inputs)

MegaTron SS (with 2 or more probe inputs)

NanoTron timer only

NanoTron (1 sensor input)

Pumps (does not include liquid-end parts) see pump price book

Service Call

Consult factory for more details.

Manufacturer's Product Warranty

Advantage Controls warrants control systems of its manufacture to be free of defects in material or workmanship. Liability under this policy extends for 24 months from date of installation (sensors are not included). Liability is limited to repair or replacement of any failed equipment or part proven defective in material or workmanship upon manufacturer's examination. Removal and installation costs are not included under this warranty. Manufacturer's liability shall never exceed the selling price of equipment or part in question. Advantage disclaims all liability for damage caused by its products by improper installation, maintenance, use or attempts to operate products beyond their intended functionality, intentionally or otherwise, or any unauthorized repair. Advantage is not responsible for damages, injuries or expense incurred through the use of its products. The above warranty is in lieu of other warranties, either expressed or implied. No agent of ours is authorized to provide any warranty other than the above.

30 Day Billing Memo Policy

Advantage Controls maintains a unique factory exchange program to ensure uninterrupted service with minimum downtime. If your controller malfunctions, call 1-800-743-7431 (international customers dial +1918 686-6211), and provide our technician with Model and Serial Number information. If he is unable to diagnose and solve your problem over the phone, a fully warranted replacement unit will be shipped, usually within 48 hours, on a 30 Day Billing Memo. This service requires a purchase order and the replacement unit is billed to your regular account for payment. The replacement unit will be billed at current list price for that model less any applicable resale discount. Upon return of your old unit, credit will be issued to your account if the unit is in warranty. If the unit is out of warranty or the damage not covered, a partial credit will be applied based upon a prorated replacement price schedule dependent on the age of the unit. Any exchange covers only the controller or pump. Electrodes and other external accessories are not included.

Get the Advantage in Water Treatment Equipment

Advantage Controls can give you the *Advantage* in products, knowledge and support on all of your water treatment equipment needs.

- Cooling Tower Controllers
- Boiler Blow Down Controllers
- Blow Down Valve Packages
- Solenoid Valves
- Water Meters
- Chemical Metering Pumps
- ➤ Corrosion Coupon Racks
- Chemical Solution Tanks
- Solid Feed Systems
- > Feed Timers
- Filter Equipment
- Glycol Feed Systems
- > Pre Fabricated Systems

