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MegaTron Controller

Microprocessor Control of:

- Conductivity
- pH
- ORP
- Chemical Feed
- Biocide Feed
- Service Reports
- 4-20mA In & Outs

Key Features

- Customizable LCD Display
- On Board History Graphs
- Multiple System Capability
- Simple ATM Style Menu
- Internet Communications Option
- Up to 20 Assignable Relays
- Relay Test Keys
- Customizable Notepad
- Multi-Level Security Code
- LSI or RSI Index Options
- 2 Year Replacement Warranty
- Email Alarm Capable
- MODbus and BACnet Options



Application

The MegaTron combines a simple ATM style menu with a 16 line graphic display and a large variety of options to make the most user friendly water treatment controller available.

Units can be configured to control a wide range of digital and analog inputs. Relay activation and names plus many other features are field selectable. The "Notepad" allows the input and history gathering of service report parameters.

MegaTron units can control single or multiple cooling towers and or boiler systems with the most customization flexibility available.

Build a Model

Units can be configured to control 1-4 systems. The model number starts with **MG** followed by the code for each function needed for the first system (**MGCPF3E**).

If building a multi-system unit, put a - after the functions of a system and list the functions for the next system (**MGCPF3E-BF2**). If systems are the same, just put a **-X2,3 or 4** after a system (**MGCPF3E-X2**). After main control functions have been selected, insert a - and list the desired common options (**MGCPF3-CF3E-H1KY**).

Conductivity Control (1 per system)

- B** = BE-4B Standard Boiler probe
- C** = TE-4A Standard Tower probe

Make-up or Misc Conductivity (1 per system)

- M** = DI-4A Standard make-up probe

PH Control (1 per system / 2 max)

- P** = TPE-21 Standard Tower probe

ORP Control (1 per system / 2 max)

- R** = TOE-21 Standard ORP probe

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

- T** = TC-1 Standard temp probe

Feed Timers (max of 5 per system)

- F1 to F5** (F4 = Four feed timers)

Flow Switch

- E** = Flow Switch

OPTIONS

- A** - Conduit connection
- A3** - Conduit with CE approval
- D** - Dry Contact relays (D or D2)
- H1** - Internet Connect Communications
- H3** - Internet card with cellular modem
- H4** - Internet card with phone modem
- K** - Additional control relays (K, K2, K3)
- N** - 4-20mA Inputs (N1-N6)
- O** - 4-20mA Outputs (O1-O6)
- S** - pH saturation indexes (with pH control)
- V** - 5 volt D.C. output with water meter wires
- W** - Auxiliary flow meter inputs (W3, W6, W9)
- Y** - Agency Approval (ETL, US&C)

NOTES:

1. Timers selectable (pulse, %, post bleed, limit or 28-day). Each system has 2 water meter inputs.
2. All expansion slots provided.
3. Each system card comes with 5 digital inputs.
4. Change H1 option to H11 for MODbus TCP/IP or H21 for BACnet IP read only communications.
5. Contact the factory for a complete option list.

Specifications

Electrical

- **Input:** 95-240 VAC, 50/60 Hz
- **Control:** Equal to input voltage (95-240VAC) fused at 2.5A per relay

Prewired units are supplied with an eight foot power cord and output receptacles.

Operational

- **Display:** 240 x 128 Graphic LCD
- **Conductivity Control:** 0-10,000 μ S/cm scale
Boiler sample method is selectable from continuous, timed sampling or sample and hold.
- **pH:** 0-14 scale
- **ORP:** +/- 1000 millivolts scale
The ORP setpoint can be tied to an optional feed timer as an override.
- **Accuracy:** +/- 1%
- **Feed Timers are all selectable from:**
 - Pulse** - water meter activated w/accumulator
 - Percent** - 1 - 100% of a cycle time.
 - Limit** - Limits feed with bleed
 - Post** - 1-100% of post bleed or other time with an over all limit.
 - 28 Day** - biocide timer.

Enclosure

Heavy duty NEMA 4X type high impact thermoplastic with padlockable gasketed Lexan viewing door.

Environment

- Ambient temperature: 0° to 125°F (-17 to 52°C)
- Relative humidity: 0 to 100%

Electrodes

Tower Standard electrodes are supplied in 3/4" (1.91 cm) SCH 80 PVC female slip tees with quick release nut.

- **Conductivity:** TE-4A 150 psi (10.3 bar) / 140°F(58°C) Max
 - **pH:** TPE-2 100 psi (6.8 bar) / 140°F(58°C) Max
 - **ORP:** TOE-2 100 psi (6.8 bar) / 140°F(58°C) Max
 - **Temperature:** TC-1 150 psi (10.3 bar) / 140°F (58°C) Max
- Boiler Conductivity electrodes are supplied with 1" (2.54 cm) MNPT SS threads.
- **Conductivity:** BE-4B 250psi (17.2 bar) / 400°F(204°C) Max

Shipping Weight: Approximately 10 lbs. (4.536 kg)

Dimensions:

W 12.5" (31.75 cm) x H 14" (35.56 cm) x D 7" (17.78 cm)

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