



MegaTron Controller

Microprocessor Control of:

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



Key Features

- Customizable Display
- On Board History Graphs
- Multiple System Capability
- Simple ATM Style Menu
- One Point Calibration
- Up to 20 Assignable Relays
- Relay Test Keys
- Customizable Notepad
- Multi-Level Security Code
- LSI or RSI Index Options
- 2 Year Replacement Warranty
- Full Graphic LCD Display
- Internet Communications Option

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 multiple 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**) Once the main control functions have been selected, insert another - and list the desired common options. (**MGCPF3-CF3E-H1KY**)

Conductivity Control (1 per system / 4 max)

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

Make-up or Misc Conductivity (1 per system)

M = DI-4A Standard make-up probe

PH Control (1 per system / 4 max)

P = TPE-21 Standard Tower probe

ORP Control (1 per system / 4 max)

R = TOE-21 Standard ORP probe

Temp (2 max/sys - 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

Low Drum Level Alarms (max 5 per system)

L1 to L5 (L4= four low level connections)

OPTIONS

A - Conduit connection
D - Dry contact relays
H1 - Internet connect communications
J - Additional system expansion bus
K - Additional control relays
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
Y - Agency approval (ETL, US&C)

NOTES:

1. Feed timers are selectable (pulse, %, post blow down, limit and 28-day). A system with a timer will have two water meter inputs.
2. MegaTron controllers have a maximum of 10 relay outputs in one box and 20 with an additional box.
3. Contact the factory for a complete option list.

Specifications

Electrical

- **Input:** 95-240 VAC, 50/60 Hz
 - **Control:** 115 VAC, 5 Amp Relay
- Prewired units are supplied with an eight foot power cord and 11" 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 28-dayfeed 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 Bleed** - 1-100% of post bleed 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" Sch. 80 PVC female slip tees with quick release nut.

- **Conductivity:** TE-4A 150 psi / 140°F(58°C) Max
- **pH:** TPE-2 100 psi / 140°F(58°C) Max
- **ORP:** TOE-2 100 psi / 140°F(58°C) Max
- **Temperature:** TC-1 150 psi / 140°F(58°C) Max

Boiler electrodes are supplied with 1" MNPT ss threads.

- **Conductivity:** BE-4B 250psi / 400°F(204°C) Max

Shipping Weight: Approximately 10 lbs.

Dimensions: W 12.5" x H 14 " x D 7"

