

MegaTron^{MT}

Touch Screen 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 Touch Screen Menu
- Internet Communications Included
- Up to 20 Assignable Relays
- Customizable Notepad
- Multi-Level Security Code
- WiFi Capable
- Non-Volatile Memory
- Email Alarm Capable
- MODbus and BACnet Options



Application

MegaTron MT touch screen controller is the industry leader in user friendly capability and flexibility with a large color touch screen.

Units can be configured to control a wide range of digital and analog inputs. Advanced relay logic and customization lets you configure a unit to meet your specific system needs.

MT touch units can control single or multiple tower, boiler, waste water and other industrial applications and provide web based communications and reporting with WebAdvantage.

Build a Model

Units can be configured to control 1-4 systems. The model number starts with **MT** followed by the code for each function needed for the first system (**MTCPF3E**).

If building a multi-system unit, put a - after the functions of a system and list the functions for the next system (**MTCPF3E-B2F2**). If systems are the same, just put a -**X2,3** or **4** after a system (**MTCPF3E-X2**). After main control functions have been selected, insert a - and list the desired common options (**MTCPF3-CF3E-N4**).

Conductivity Control (1 per system max)

B2 = BE-32 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 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 - Liquid tight only with CE mark, 240 volt

H7 - Zigbee base radio

H11 - Internet card w/ CAT5 & Modbus TCP/IP

H21 - Internet card w/ CAT5 & BACNet TCP/IP

N - 4-20mA Inputs (N4-N8)

O - 4-20mA Outputs (O4-O8)

V4 - Additional 24 VDC power supply

W - 10 Auxiliary flow meter inputs

NOTES:

1. Timers selectable (pulse, %, post bleed, limit, recycle 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. Boiler conductivity should only be used on continuous or surface lines; not bottom blowdown lines.
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 8' (248.84 cm) power cord and 8" (20.32 cm) output receptacles.

Operational

- **Display:** 6.875" Diagonal LCD Touch Screen
- **Conductivity Control:** uS/cm, mS/Cm, PPM scales with ranges up to 50,000 depending on sensor selection. Boiler sampling: continuous, timed or sample and hold.
- **pH:** 0-14 scale
- **ORP:** +/- 1000 millivolts scale
- **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 limit.
 - 28 Day** - Biocide timer.
 - Recycle** - Recycle timer.

Enclosure

Heavy duty NEMA 4X style high impact thermoplastic with padlockable gasketed Lexan cover.

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 (60°C) Max
- **pH:** TPE-2 100 psi (6.8 bar) / 140°F (60°C) Max
- **ORP:** TOE-2 100 psi (6.8 bar) / 140°F (60°C) Max
- **Temperature:** TC-1 150 psi (10.3 bar) / 140°F (60°C) Max

Boiler Conductivity electrodes are supplied with 1"

(2.54 cm) MNPT SS threads.

- **Conductivity:** BE-32 250 psi @ 400°F / 350 psig @ 265°F PEEK core

Shipping Weight: Approximately 10 lbs. (4.536 kg)

Dimensions:

W 13.5" (34.29 cm) x H 14.5" (36.83 cm) x D 7.125" (18.09 cm)

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