

# MegaTron<sup>MT</sup> 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
- Simple Touch Screen Menu
- Internet Communications Included
- Up to 20 Assignable Relays
- Customizable Notepad
- Multi-Level Security Code
- Wi-Fi Capable
- Non-Volatile Memory
- E-mail 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 / 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

- A2** - Conduit with CE approval
- H11** - Internet card w/ CAT5 and Modbus TCP/IP
- H15** - Dual networks w/WebAdv via TCP/IP or Wifi & Modbus via TCP/IP
- H21** - Internet card w/ CAT5 and BACnet TCP/IP
- H25** - Dual networks w/WebAdv via TCP/IP or Wifi & BACnet via TCP/IP
- H26** - Dual networks w/WebAdv via TCP/IP or Wifi & BACnet read/write via TCP/IP
- N** - 4-20mA Inputs (N4, N8, N12, N16)
- O** - 4-20mA Outputs (O4, O8)
- V4** - Additional 24VDC power supply
- W** - 10 Auxiliary flow meter inputs
- Y** - ETL Agency Approval

### NOTES:

1. Timers selectable (pulse, %, post bleed, 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 2,5m power cord and 20cm output receptacles.

### Operational

- **Display:** 6.875" Diagonal LCD Touch Screen
- **Conductivity Control:**  $\mu$ S/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.
  - Recycle** - OFF and ON cycle; HH:MM:SS
  - 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 style high impact ABS with padlockable gasketed Lexan viewing door.

### Environment

Ambient temperature: -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 10.3 bar / 60°C Max
- **pH:** TPE-21 6.8 bar / 60°C Max
- **ORP:** TOE-21 6.8 bar / 60°C Max
- **Temperature:** TC-1 10.3 bar / 60°C Max

Boiler Conductivity electrodes are supplied with 1" MNPT SS threads.

- **Conductivity:** BE-32 17 bar @ 200°C / 24 bar @ 130°C PEEK core

**Shipping Weight:** Approximately 4,54 kg

## Dimensions:

W 34,29 cm x H 36,83 cm x D 18,09 cm