

MegaTron^{MT}

TOUCH SCREEN CONTROLLER

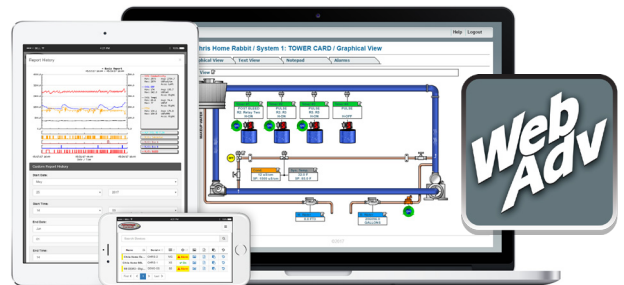
The MegaTron MT offers the widest range of features combined with WebAdvantage remote communications making it an exceptional choice for commercial and industrial water treatment systems.

MICROPROCESSOR CONTROL OF:

Conductivity, pH, ORP, Chemical & 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
- Wi-Fi Capable
- Non-Volatile Memory
- E-mail Alarm Capable
- Modbus and BACnet Options



PRODUCT OVERVIEW

The 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 MT **C P R F3 E** - **H15 K3 N4 V4**

Step 1 system card functions

Conductivity	
B2	Boiler with BE-32C
C	Tower with TE-4A
C12	Low range with AL-4ASS
Misc Conductivity	
M	General range with DI-4A
M4	General range with TE-4A
pH	
P	Single set point with TPE-21
Q	Dual set point with TPE-21
ORP	
R	Standard with TOE-21
Feed Timers (5 max per system)	
F	F1 to F5 (F3 = 3 feed timers)
Flow Assembly	
E	Float style flow switch, PVC
E6	Flow input only

If building a multi-system unit, put a - after the functions of a system and list the functions for the next system (**MTCPF3E-BF2**). 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**).

Step 2 whole unit options

MT standard features include control relays with prewired USA cords and WebAdvantage communications. List any desired options in alphabetical order.

Power Cord Options		100-230 VAC		mA In/Out Signals		16 signals max											
A	All 1/2" FNPT conduit connections	N4	(4) mA inputs	N8	(8) mA inputs	N12	(12) mA inputs (only 4 outputs avail.)										
A2	Class F cord, no relay pigtails, CE mark	N16	(16) mA inputs (no outputs available)	O4	(4) mA isolated outputs	O8	(8) mA isolated outputs										
A3	Liquid tight only, CE mark	<table border="1"> <tr> <th colspan="2">Accessories</th> </tr> <tr> <td>V4</td> <td>24 VDC power for external signals</td> </tr> <tr> <td>W</td> <td>(10) additional flowmeter pulse inputs</td> </tr> <tr> <td>Y</td> <td>ETL Agency Listings (USA, CSA)</td> </tr> <tr> <td>Z</td> <td>Black display cover (instead of clear)</td> </tr> </table>						Accessories		V4	24 VDC power for external signals	W	(10) additional flowmeter pulse inputs	Y	ETL Agency Listings (USA, CSA)	Z	Black display cover (instead of clear)
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A7	Class I cord, no relay pigtails, CE mark																
A8	Prewired USA cord, 1/2" conduit relay																
Communication Options		WebAdv standard															
H15	Dual network w/ Modbus TCP/IP or Wifi	<table border="1"> <tr> <th colspan="2">Accessories</th> </tr> <tr> <td>V4</td> <td>24 VDC power for external signals</td> </tr> <tr> <td>W</td> <td>(10) additional flowmeter pulse inputs</td> </tr> <tr> <td>Y</td> <td>ETL Agency Listings (USA, CSA)</td> </tr> <tr> <td>Z</td> <td>Black display cover (instead of clear)</td> </tr> </table>						Accessories		V4	24 VDC power for external signals	W	(10) additional flowmeter pulse inputs	Y	ETL Agency Listings (USA, CSA)	Z	Black display cover (instead of clear)
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H16	Dual network w/ Modbus read/write TCP/IP or Wifi																
H25	Dual network w/ BACnet TCP/IP or Wifi																
H26	Dual network w/ BACnet read/write TCP/IP or Wifi																

Tower / general range conductivity sensors include a temperature reading. Additional sensor types are available. Consult dealer for additional options.

Specifications

Electrical Input	100-230 VAC, 50/60 Hz	Relative Humidity	0 to 100%
Relay Outputs	Individually fused and 2.5 amps. Dry contact limited to 2.5 mA at 28 VDC.	Conductivity Control	µS/cm, mS/cm, PPM scales up to 50,000 depending on sensor selection
Display	6.875" Diagonal LCD Touch Screen	pH Control	0-14 with single or optional dual set point
Digital Inputs	Inputs have 10K Ω pullup to 3.3 VDC from open collector open drain output	ORP Control	+/- 1,000 mV, 2nd set point timer linked
Flow Totalizing Inputs	10K Ω pullup to 5 VDC max rate 2.5 KHz from open collector open drain output	Accuracy	+/- 1% of scale
mA Inputs	Optical isolation, 250 Ω / 5 VDC @ 20 mA. Loop voltage to not exceed 30 VDC.	Selectable Feed Timers	Water meter pulse, Percent, Post, Limit, Recycle, and 28 day with reminder 1 for loss flow.
mA Outputs	Non-isolated. 12 VDC max load = 400 Ω. Isolated ext 24 VDC max load = 800 Ω.	mA Input Control	Customizable to desired range and scale
Ethernet	DHCP or static capable with 10/100 WiFi 802.11 (b/g/n)	mA Output	Proportional with second input conditioning
Approvals	CE, CSA, ETL/UL	Tower probes supplied in 3/4" quick release PVC tees. pH and ORP probe bodies are CPVC.	
Enclosure	NEMA 4X style polycarbonate	TE-4A	150 psi (10.3 bar), 140°F (60°C) max
Ambient Temp	0° to 125°F (-17° to 52°C)	TPE-21	100 psi (6.8 bar), 140°F (60°C) max
Shipping Weight	Approximately 10 lbs. (4.536 kg)	TOE-21	100 psi (6.8 bar), 140°F (60°C) max
Dimensions	W 13.5" (34.29 cm) x H 14.5" (36.83 cm)	FS-OC (flow switch)	140 psi (9.6 bar), 140°F (60°C) max
		AL-4ASS	100 psi (6.8 bar), 212°F (100°C) max
		BE-32C	250 psi @ 400°F, SS/PEEK with 1" cross



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