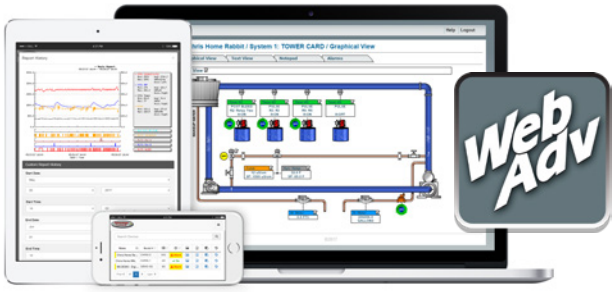
MegaTronMT

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 piont 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
A	All 1/2" FNPT conduit connections
A2	Class F cord, no relay pigtails, CE mark
A3	Liquid tights only, CE mark
A7	Class I cord, no relay pigtails, CE mark
A8	Prewired USA cord, 1/2" conduit relay

Communication Options	WebAdv standard
H3	No active WebAdv or Wi-Fi
H15	Dual network w/ Modbus TCP/IPi
H16	Dual network w/ Modbus read/write TCP/IP
H25	Dual network w/ BACnet TCP/IP
H26	Dual network w/ BACnet read/write TCP/IP

mA In/Out Signals	16 signals max
N4	(4) mA inputs
N8	(8) mA inputs
N12	(12) mA inputs (only 4 outputs avail.)
N16	(16) mA inputs (no outputs available)
O4	(4) mA isolated outputs
O8	(8) mA isolated outputs

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)

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
Relay Outputs	Individually fused and 2.5 amps. Dry contact limited to 2.5 mA at 28 VDC.
Display	6.875" Diagonal LCD Touch Screen
Digital Inputs	Inputs have 10K Ω pullup to 3.3 VDC from open collector open drain output
Flow Totalizing Inputs	10K Ω pullup to 5 VDC max rate 2.5 KHz from open collector open drain output
mA Inputs	Optical isolation, 250 Ω / 5 VDC @ 20 mA. Loop voltage to not exceed 30 VDC.
mA Outputs	Non-isolated. 12 VDC max load = 400 Ω. Isolated ext 24 VDC max load = 800 Ω.
Ethernet	DHCP or static capable with 10/100 WiFi 802.11 (b/g/n)
Approvals	CE, CSA, ETL/UL
Enclosure	NEMA 4X style polycarbonate
Ambient Temp	0° to 125°F (-17° to 52°C)
Shipping Weight	Approximately 10 lbs. (4.536 kg)
Dimensions	W 13.5" (34.29 cm) x H 14.5" (36.83 cm)

Relative Humidity	0 to 100%
Conductivity Control	µS/cm, mS/cm, PPM scales up to 50,000 depending on sensor selection
pH Control	0-14 with single or optional dual set point
ORP Control	+/- 1,000 mV, 2nd set point timer linked
Accuracy	+/- 1% of scale
Selectable Feed Timers	Water meter pulse, Percent, Post, Limit, Recycle, and 28 day with reminder 1 for loss flow.
mA Input Control	Customizable to desired range and scale
mA Output	Proportional with second input conditioning
Tower probes supplied in 3/4" quick release PVC tees. pH and ORP probe bodies are CPVC.	
TE-4A	150 psi (10.3 bar), 140°F (60°C) max
TPE-21	100 psi (6.8 bar), 140°F (60°C) max
TOE-21	100 psi (6.8 bar), 140°F (60°C) max
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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