MegaTron XK

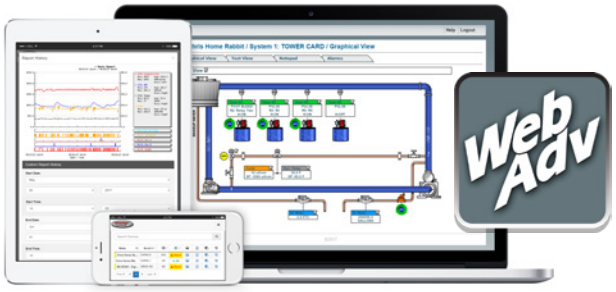
WATER TREATMENT CONTROLLER

The MegaTron XK offers all the features and options of the popular MegaTron XS in a new rugged enclosure to accomodate even more options to meet today's water treatment system requirements.



MICROPROCESSOR CONTROL OF:

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



KEY FEATURES

- Customizable LCD Display
- On Board History Graphs
- Single System Logic
- Simple ATM Style Menu
- WebAdvantage Communications Options
- Up to 8 mA Inputs
- Customizable Notepad
- Multi-Level Security Code
- Wi-Fi Capable
- Non-Volatile Memory
- 5 Assignable Relays

PRODUCT OVERVIEW

The MegaTron XK water treatment controller is the latest innovation in our highly acclaimed MegaTron product line.

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.

XK units can control a single tower, boiler, wastewater or other industrial application and provide web based communications and reporting with WebAdvantage.

Build a Model .....X K C P R F E – H2 N8 Z1

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	
F	Five selectable

Flow Assembly	
E	Float style flow switch, PVC
E6	Flow input only

Step 2 whole unit options
XK standard features include 5 control relays with prewired USA cords.
List any desired options in alphabetical order.

Power Cord Options	100-230 VAC except A22
A	All 1/2" FNPT conduit connections
A2	Class F cord, no relay pigtails, CE mark
A3	Liquid tights only, CE mark
A5	USA power cord, no relay pigtails
A7	Class I cord, no relay pigtails, CE mark
A8	Prewired USA cord, 1/2" conduit relay
A22	24 VDC power instead of 100-230 VAC

Communication Options	No comms standard
H2	WebAdvantage only no Wi-fi
H	WebAdvantage only with Wi-fi
H11	Internet card, CAT5, and Modbus TCP/IP
H21	Internet card, CAT5, and BACnet TCP/IP

Relay Options	(2.5 amp each)
K1	(5) relay card not connected to power
K2	(5) relay card all set for dry contact
K3	No control relays

mA In/Out Signals	8 signals max
N4	(4) mA inputs
N8	(8) mA inputs (no O4)
O4	(4) mA isolated outputs

Accessories	
T	Configured for mounting of separately ordered CELLADV-0-12 or -24 inside controller
V	24 VDC power for external signals
W	(5) additional flowmeter pulse inputs
Y	ETL Agency Listings (USA, CSA)
Z	Black display cover
Z1	Clear display cover

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	240 x 128 graphic LCD
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, UL61010-1/CSA C22.2 No. 61010-1-12 + A1:2022 (R2022)
Enclosure	NEMA 4X style polycarbonate
Ambient Temp	0° to 125°F (-17° to 52°C)
Shipping Weight	Approximately 10 lbs. (4.536 kg)
Dimensions	11" (27.94cm) W x 11.75" (29.84 cm) H

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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