

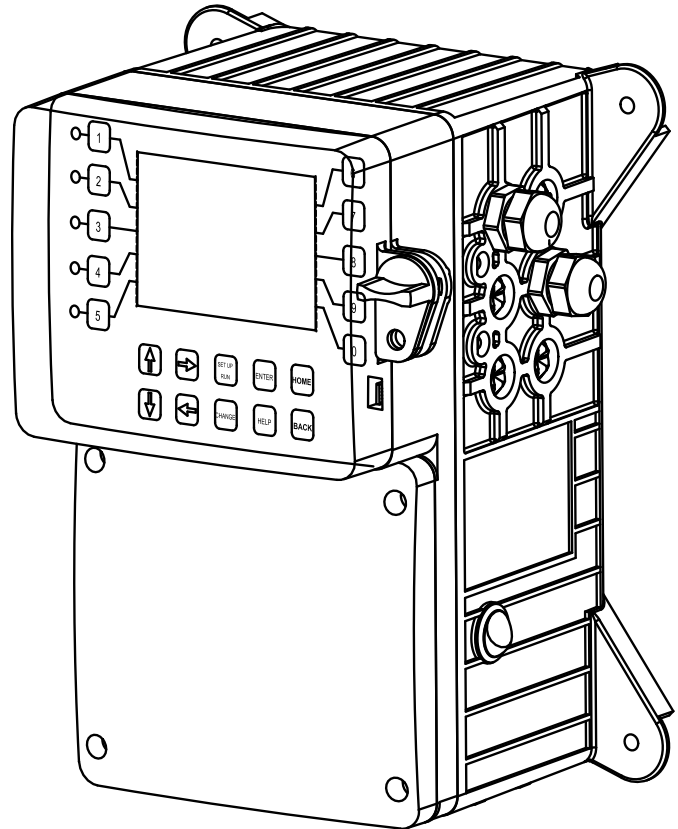
# MegaTron<sup>XS</sup> Controller

## 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 ATM Style Menu
- One Point Calibration
- Internet Communications Option
- 5 Assignable Relays
- Relay Test Keys
- Customizable Notepad
- Multi-Level Security Code
- LSI or RSI Index with pH
- 2 Year Replacement Warranty
- USB History Access



## Application

The MegaTron XS controllers offer all of the user friendly features of the original MegaTron SS plus a number of new features for water treatment systems.

Units can be configured to control a wide range of digital and analog inputs. Relay activation and names plus many other features are field selectable. The “Notepad” allows the input and history gathering of service report parameters.

MegaTron XS units can control a single cooling tower or a single / dual boiler system with the most customization flexibility available.

# Build a Model

The model number starts with XS followed by the code for each function needed for the first system. (XSCPF3E)

Once the main control functions have been selected, insert another - and list the desired common options. (XSCPF5-H1).

## Conductivity Control

**B2** = BE-32 Standard Boiler probe  
**C** = TE-4A Standard Tower probe

## Make-up / Misc. Conductivity

**M** = DI-4A Standard Make-up probe

## PH Control

**P** = TPE-21 Standard Tower probe

## ORP Control

**R** = TOE-21 Standard ORP probe

## Feed Timers (max of 5 per system)

**F3** = 3 selectable feed timers  
**F5** = 5 selectable feed timers

## Flow Switch

**E** = Flow Switch

## OPTIONS

- A** - Conduit connection
- A3** - Conduit with CE approval
- H1** - Internet Connect Communications  
**Cellular options available. Consult factory.**
- H11** - Internet card w/ CAT5 and Modbus TCP/IP
- H21** - Internet card w/ CAT5 and BACnet TCP/IP
- H31** - Internet card w/ CAT5 and Lonworks
- N4** - (4) 4-20mA Inputs
- N8** - (8) 4-20mA Inputs (O4 option not available)
- O4** - (4) 4-20mA Outputs
- W1** - (1) auxiliary flow input for a bleed flow alarm
- W4** - (4) Auxiliary flow meter inputs
- Y** - Agency Approval (ETL, US&C)

## NOTES:

1. Timers selectable (pulse, %, post bleed, recycle or 28-day). Each system has 2 water meter inputs.
2. All expansion slots provided.
3. MegaTron XS controllers can have 4 probes max.
4. MegaTron XS controllers have 5 relays max.
5. Boiler conductivity should only be used on continuous or surface lines; not bottom blowdown lines.
6. LSI or RSI index included with pH if unit has tower conductivity.
7. Dual boiler unit model (i.e. XSB2F3-B2-H1)

**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:** 240 x 128 Graphic LCD
- **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  
The ORP setpoint can be tied to an optional 28-day feed timer as an override.
- **Accuracy:** +/- 1%
- **Feed Timers are all selectable from:**
  - Pulse** - water meter activated w/accumulator
  - 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: 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-21 100 psi (6.8 bar) / 140°F (60°C) Max
- **ORP:** TOE-21 100 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 XS threads.

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

**Shipping Weight:** Approximately 8 lbs. (3.62 kg)

## Dimensions:

W 10" (28.4 cm) x H 12" (30.5 cm) x D 7.25" (18.4 cm)

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