



Cortex7

Programmable Controller

- State of the Art Microprocessor Controller, with touchscreen.
- Local and Remote-Control Operation.
- Multiple integrated control schemes including Solution Concentration Ratio Control, Batch System Program and System Flush Control.
- Totalizers for Each Output Relay.
- Robust (IP66) Watertight.

Key Benefits:

- 7" capacitive touch display makes setup easy.
- Independent Logic Processor from the Application Processor for improved reliability.
- Eight Digital Inputs and Six relay control outputs offer plenty of IO for all your interfacing needs.
- Complete flexibility in the function of each relay.
- Four Analog Inputs and Two Analog outputs adds even more flexibility when connecting sensors.
- Ethernet for remote access via LAN from any PC, MQTT Broker built-in ready for your IOT needs.
- Wall mount for easy installation.
- Two Year Warranty.

Engineering Specifications:

Operating Voltage:

100 to 240VAC 50 or 60hz 1ph (10-amp fuse)

Logic Processor:

32-bit floating-point ARM M4F processor
168MHz, 1Mbytes Flash, 192Kbytes SRAM

Digital Inputs:

Eight State-Type Digital Inputs
Typical response time < 1 second
Device supported: Any isolated dry contact
NPN or PNP sensors
(PNP sensors require pull down resistor 330Ω)

Relay Outputs:

Six Dry Contact Mechanical Relays
AC: 10A (Resistive Load)
DC: 5A (Resistive Load)

Analog Inputs:

Four 0-20mA, 4-20mA Internally Powered
2-Wire or 3-Wire
Resolution 0.001 mA

Analog Outputs:

Two Externally powered, fully isolated
600 Ohm max resistive load
Resolution 0.005 mA
Accuracy $\pm 0.5\%$ of reading

Display:

7" TFT color display, 1024x600 pixels
High brightness 800cd/m²
Color Depth 16.7M Full viewing angles (IPS)
Industrial projected capacitive touch screen

Application Processor:

64-bit Broadcom BCM2711 quad-core Cortex-A72
1.5GHz, 2GB LPDDR4 SDRAM, 8GB eMMC flash

Ethernet

10Base-T/100Base-TX
Remote access via LAN
MQTT with built-in broker

Enclosure Material:

Polycarbonate

Enclosure Rating:

Certified to UL50 and UL50E Type 4X
IEC 60529 meets IP66 Flammability Rating: UL94-5VA
Outdoor UV Exposure Rating: UL-F1

Environmental Conditions:

Can be installed indoors and outdoors

Overall Dimensions:

10" H x 8" W x 4" D (25.4 H x 20.3 W x 10.2 H cm)

Product Weight:

4.6 lbs (2.1 kgs)

Dimensions:

