



SMART SYSTEMS CONTROLS, INC

SmartBOX2

SmartBOX2 is a general purpose, PLC-based, single digital, dual analog input sensor instrumentation control box with built-in data logging/trending. It's designed to get up and going quickly without any programming required, and is menu configurable via a color touch screen. The PLC is pre-programmed with all I/O labeled – setup screens allow user to rename input labels, set input scaling, and set alarms. It's capable of working with a single digital input with an average response time of 10ms, and a maximum frequency response of 30kHz, and any two, 4-20mA DC analog inputs such as level, flow rate, pH, temperature, ORP, etc. and controlling up to twelve (12) 6A SPDT relay outputs. Each input has 4 designated dry contact NO/NC relay outputs, two of which will be powered with 110VAC @2A to control optional devices like a pH pump. Each input can monitor and control a separate process.

User
Configurable

Color Touch
Screen



Password
Controlled

Data
Logging/Trending

Pre-programmed



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FEATURES

- ETL/UL 508 certified
- 1 – 30kHz digital input
- 2 – 4-20mA analog inputs
- 12 – 24VDC (250VAC/30VDC/6A) SPDT isolation relay outputs
- 7" 800x480 pixel color touch screen PLC/HMI
- User configurable channel labels, alarms and scaling
- Circuit breaker protected 110VAC 10A main power
- Circuit breaker protection on all devices
- 20"x16"x10" NEMA 4/12 non-metallic enclosure
- Data logging/trending
- Password controlled access
- Fully documented
- No user PLC programming required
- 2 year parts warranty

OPTIONS – Call for pricing

- Cellular Modem for SMS text alarms
- Web/Internet/Email Access
- Explosion proof enclosure (call for pricing)
- Audible 3 color LED alarm indicator light/alarm
- Battery/solar backup

The **SmartBOX2** is user configurable and can be setup to perform any of the following common applications listed below.



➤ Level Control

- To maintain desired tanklevel (fill solenoid, pump on/off control, drain valve)
- Alarms

➤ pH Control

- Metering pump control (pulsed output up to 120 pulse per second or continuous on)
- Alarms

➤ ORP Control

- To maintain water quality, add fresh H₂O
- Alarms

➤ Flow Control

- Monitor pump flow rate
- Pump protection for no flow
- Alarms

➤ Pressure Control

- Monitor duct pressure, pump line pressure
- Alarms

➤ Temp Control

- Monitor or control process heat or cooling

