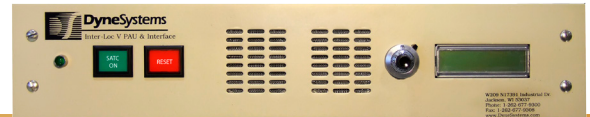


DS830

Stand-Alone Throttle Controller (SATC)



Features

- Analog voltage or current input enables unit to be used as a stand-alone closed-loop throttle controller
- Analog input accommodates either a 0-20 mA or 0 to +10 VDC input command proportional to 0-100% throttle position
- Analog output is a 0 to +10 VDC position feedback output (proportional to throttle position)
- Digital Inputs include Actuator On and Reset; and Pushbutton commands (Up, Down, Enter and Soft Shutdown)
- Digital Outputs include 4 LED functions (Upper Limit, Lower Limit, Acceptance of entry and System Fault) and 2 Status functions (SATC Okay and SATC On)
- Interfaces with industrial PC / PLC 24 VDC logic based controllers
- LCD display shows position command, actual position, and status feedback, including fault messages
- Fault messages include No Encoder ILK, Invalid Span, Over Temperature, Over current, Power Fail, and Actuator Stalled
- Integrates with all Dyne Systems actuators
- Two methods of calibration: manual and powered
- Field configurable as a stand-alone controller or with an external control system
- Remote Pendant required for setup and calibration

Testing Applications

- Engine

The DS830 provides repeatable closed-loop throttle control for applications where complete dynamometer control is not required. This product is designed to be a cost effective offering for many throttle control applications. The universal interface, combined with Dyne Systems throttle actuator, provides an ideal replacement for legacy throttle controls and actuators.

Dimensions

19" Rack x 3.5"h x 15"d

Control Power

**120 V, 1.0 Amps
50/60 Hz compatible**

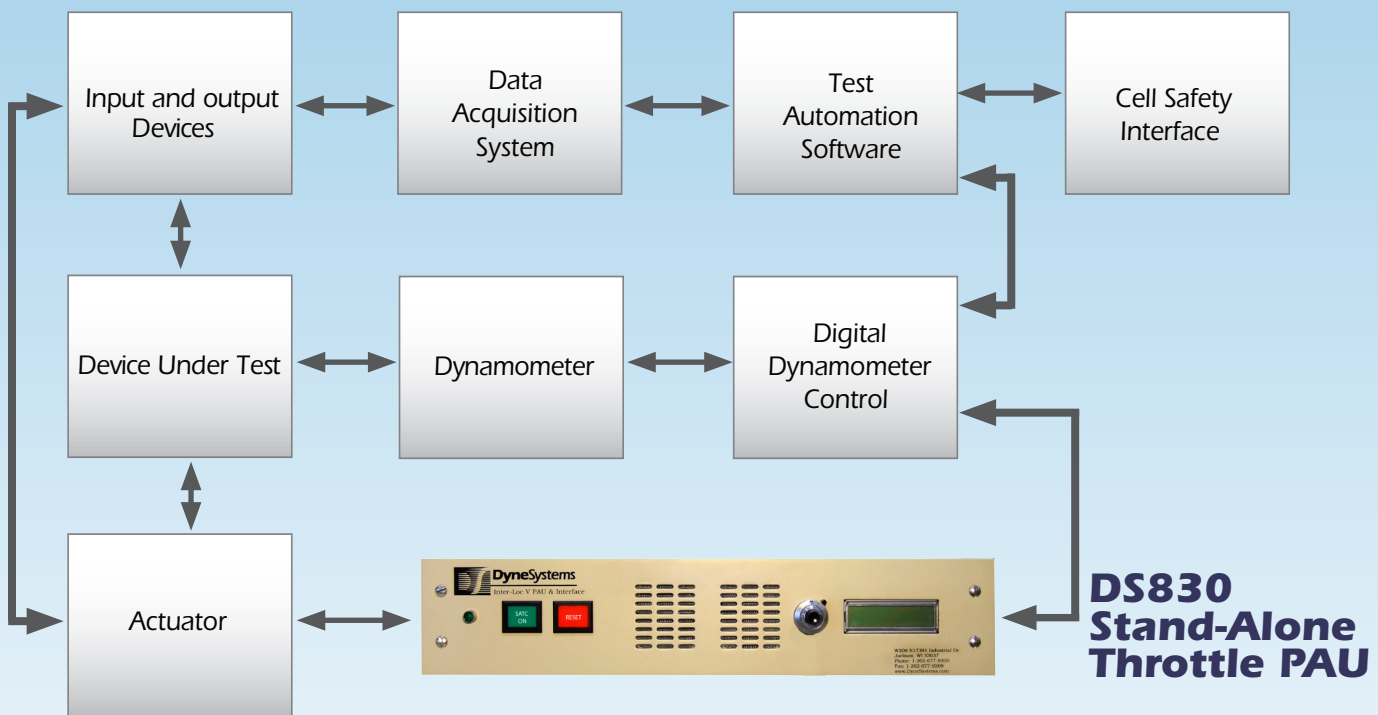
Environmental Limits

Air Temperature: 0° to 40°C (104°F)

**Relative Humidity: 0 to 95%
No condensation allowed**

Optional Configurations

Combination DS820 / DS830



Dyne Systems Product Line

Closed Multi-Loop Dynamometer & Throttle Control

- Inter-Loc V
- DS630 Inter-Loc V Throttle Controller

Closed Single-Loop Dynamometer Control

- Dyn-Loc IV
- Dyn-Loc V

Closed Loop Throttle Control

- DTC-1
- DS830 Stand-Alone Throttle Controller

Open Loop Dynamometer Control

- DS820 Eddy Current PAU

Closed Loop Water Flow Control

- EWC-1

5-Gas Exhaust Analyzer

- XM2000

Data Acquisition

- Companion II: Dyne Systems proprietary
- Companion III: Yokogawa based
- Companion IV: NI cRIO based

Test Automation Software

- Cell Assistant for Windows
- Cell Assistant for LabVIEW™ (VeriStand™)

Test Cell Safety PLC Interface

- CIA I: Automation Direct / Koyo
- CIA II: Horner
- CIA III: ABB
- CIA IV: Allen-Bradley

Throttle Accessories

- Actuator, Remote Pendant, Cables

Eddy Current Dynamometers

- 5–5000 Hp

AC Dynamometers and Drives

- 5–1600 Hp

DC Dynamometers and Drives

- 5–1200 Hp