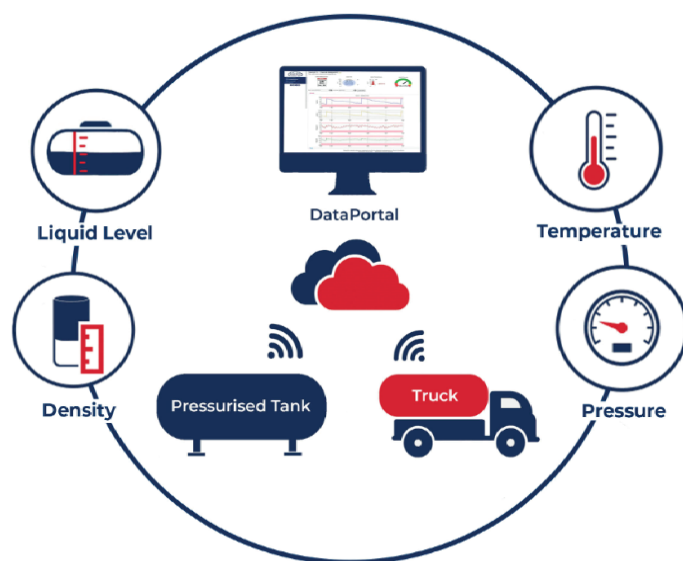
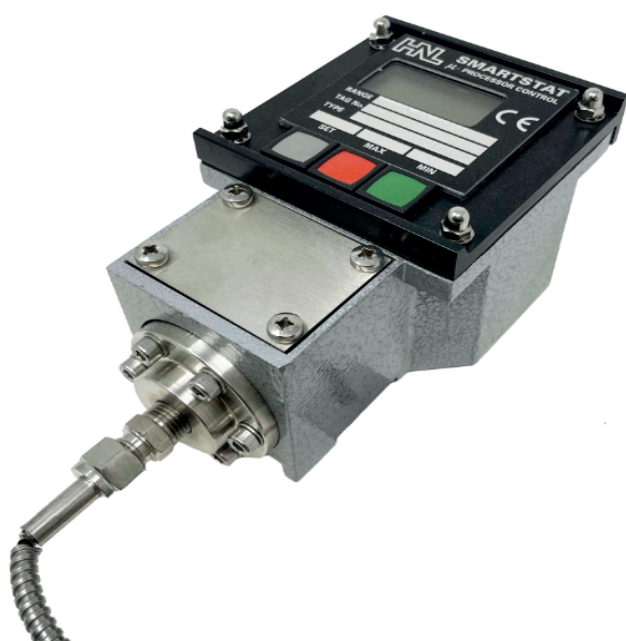




# SERIES 800 SMARTSTAT (TEMPERATURE)

The SERIES 800 is a microprocessor controlled temperature switch, transmitter and indicator, which enables several instruments to be replaced with a single device.

Heavy Duty    Hazardous Area Certified    Simple to Install



## FEATURES

- Ranges from -40°C to 400°C
- 24Vdc supply, 4-20mA loop powered.
- High Accuracy of 0.5% and repeatability of 0.1%
- Standard electrical and I.S. certified versions available.
- Reduce Costs

## APPLICATION AREA

- Power Generation
- Oil & Gas
- Pharmaceutical
- Chemical, Petrochemical & Refining

## YOUR BENEFIT

- Pushbutton calibration of set points and transmitter range enables calibration on site without tools..
- Programmable switching delays- the switching on or off (or both) of the relays may be delayed from 0.5 seconds to 15 minutes. This is particularly useful for preventing unwanted switching due to temperature transients.
- Display of maximum and minimum temperatures recorded by the SmartStat.
- Display of transmitter output in mA.



# SERIES 800 SMARTSTAT (TEMPERATURE)

## GENERAL SPECIFICATION

Power Supply: 24Vdc @ 3.5mA without 4 - 20mA transmission.  
24Vdc @ 22mA with 4-20mA transmission  
Maximum supply voltage 30 Vdc.

Switching: Relays have multi-layered contacts making them suitable for switching from 100mVdc 100  $\mu$ A to 30Vdc 3A or 250Vac 4A.  
Minimum switching life  $10^5$  operations.

I.S. Certification: EEx i a IIC T4/T5/T6 EN50 014, EN50 020 & EN50 284  
T4 = 80 °C, T5 = 55°C, T6 = 40°C  
Certificate No: Baseefa 03ATEX0504X

Power Supply: 24Vdc @ 3.5mA without 4-20mA transmission.  
24Vdc @ 22mA with 4-20mA transmission.  
24Vdc supply via any 28V 300ohm I.S. source certified by Baseefa or any EEC approved certification body to EEx ia IIC.  
For Smartstat supply C=0, L=0  
Suitable barriers include MTL702+, MTL3041, MTL5041, ect.

Switching: Each relay must be connected to a seperate (or the same) I.S.source certified by Baseefa or any EEC approved certification body to EEx ia IIC whose output does not exceed 28Vdc.

Umax IN= 28Vdc, Imax IN=3.33A. For relay outputs C=0, L=0.  
Suitable barriers include MTL707+, MTL2210B, MTL5016, ect.

Ambient Temperature: -20 °C to +85°C (I.S. may be lower)

Accuracy: Linearity Error: +/- 0.2% typical  
Temperature hysteresis: +/- 0.1 %

CE: This product satisfies the requirements of the Electromagnetic Compatibility Directive 89/336/EEC and amendments by compliance with standards EN50081-2: 1993 and EN50082-2:1995.

This product also complies with standard EN60947-5-1:1997 in addition to the standards listed for hazardous area certification.

## DIMENSIONS

