

SEQUENTIAL TEMPERATURE & VISCOSITY CONTROLLERS

435-T & 435-V



Overview

The ASHE 435-T and 435-V are a range of sequential temperature and viscosity controllers in a highly compact, rugged and reliable execution. The instrument has six Relays operating in sequential succession for heater control in Diesel Generator applications.

The base control set-point is first set by means of the potentiometer provided on the front panel, where-after the set-point for each relay will be automatically preset at fixed differential values relative to the set-value. A four-digit LED display is provided to indicate the process value. Further two additional relays with independent control set-points are also provided for alarm control. The display can indicate any scale range between -999 to +9999 units.

The Indicators accept standard current loop signals of 4 to 20 mA DC for Viscosity Controllers and RTD Pt-100 Sensor for Temperature Controllers. The Indicator is available in DIN standard dimensions in panel-mount execution and operates on AC power supply.

The Ashe 435-T and 435-V offer a high degree of reliability owing to their inherent accuracy in process control, besides other characteristics like total immunity to shocks, dust, ambient temperatures, humidity and corrosive atmospheres. Further, the instruments are manufactured using selected high-grade components which guarantee their functional reliability and long operational life.

All ASHE range of instruments carry a lifetime warranty for design and workmanship.

Specifications

Model	ASHE 435-T (Temperature) ASHE 435-V (Viscosity)
Type	Six-step Sequential process controller for Diesel Generator application, with two alarm LEDs.
Input Signal / Sensors	4 to 20 mADC – two-wire (for Viscosity Control) RTD Pt-100 – three-wire (for Temperature Control).
Display	3½-digit, 0.5" seven-segment LED display.
Scale Range	-1999 to +1999.
Calibration	0 to 100 deg C (Temperature) 0 to 26.5 CST (Viscosity)
Response time	< 200 ms
Linearity	0.1% of span.
Calibration facility	By Potentiometer on front panel.
Control outputs	Upto six relay changeover contacts (sequential) plus two Alarm outputs.
Contact Rating	10 Ampere @ 230 V AC (resistive loads).
Control Logic	High-Low (Configurable).
Control steps	2 deg C for Temperature 3 CST for Viscosity
Alarm indication	By LEDs on front panel.
Accuracy	0.1% of FSD.
Polarity	Auto-sensing.
Settings	Settings for Zero, Span, Decimal point.
Power Supply	230 V AC, 50 hz power supply.
Dimensions	192 x 96 x 150 mm [W x H x D].
Execution	Panel mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 1.0 Kg.
Operating Temperature	0 to 50 °C.

Features

- Sequential Step Control
- Temperature & Viscosity applications
- Standard analog signal and Sensor.
- Low Input impedance – negligible load on loop.
- High accuracy and linearity to input signal
- 3½ digit seven-segment LED displays
- Multiple Relay change-over contacts
- Very low power consumption and heat dissipation
- Easily configurable
- External transmitter powering option
- Polarity Auto-sensing
- AC Power Supply
- On-Off control action options
- Rugged, industrial grade ABS enclosure
- High Noise immunity.
- Panel / Field / Hazardous-area installation in IP65 execution
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

ASHE CONTROLS PRIVATE LIMITED