FLP Humidity & Temperature Transmitter VIPL-FLP-RHT

Features:

- Software calibration for both Temperature & Humidity.
- Long term stable output for both Temperature and RH.
- User selectable Temperature, RH & Dew point outputs.
- Temp. Range is -40 to 120°C with Accuracy of ± 0.5 ºC
- Easy handling & programming with 3 keys for WP Models.
- Password protected programming with password changing facility.
- Relative Humidity range is 0 to   100%RH with accuracy of ± 2%RH.
- Optional RS-485 communication port with MODBUS RTU Protocol.
- Highly Accurate digital technology sensor gives fast and reliable output.
- Non-intrusive programming for Flameproof models using Magnetic Pen.
- Can be programmed using Remote Control up to 10meters line of site distance.
- Optional Alarm relay contacts with two configurable Alarm levels & one relay for fail safe relay.
- Optional Range Lock set points can be configured for both Temperature & Humidity.
- Calculated Dew point measurement based on measurement of Temperature and Humidity.
- Digital Display of Temperature & RH on Seven Segment Display Standard 4-20mA signal outputs with configurable range.

RH+T Transmitter

Applications

- Clean Rooms
- Swimming Pool
- Pharmaceutical Hospitals / Labs Enthalpy
- Control Museums / Archives
- Refrigeration Control
- Indoor Air Quality (IAQ)
- HVAC/ Buildings Control
- Energy Management System (EMS)

Technical specification:

General

Detection Method : Advanced CMOSens Technology.
Display : 2-Line, 4-Digit 13mm (H) Seven Segment Display.
 8 LEDs to indicate status of instrument. Control
Action : i) Two independent Alarm set points with Latch & Non-latch facility.
 : ii) User selectable Hysteresis and Logic option.
 : iii) Configurable Range Lock set points for Temp. & RH (optional)
Setting : By 3 Keys on front panel for WP model.
  By using Magnetic pen for Flameproof model
  By using Remote Control for WP/FLP model (Optional)
Range : For Temperature = -40 to 120°C
  For Relative Humidity = 0 to 100%RH

Output Signal

Standard   : Two 4-20mA Current Outputs with configurable range selection.
Optional   : Three SPDT Relays (one for failsafe and two for Alarm Condition) of rating
                       "120VAC/2A, 24VDC/2A"
Optional   : RS-485 Communication port with MODBUS RTU protocol.

Performance Measurement

Accuracy   : ± 0.5 C for Temperature
                       ± 2% RH for Relative Humidity
Response Time   : Approx. 30 Seconds
Start-up Time   : Approx. 30 Seconds.

Electrical

Supply Voltage   : 18 to 36 VDC; Typically, 24VDC
Power Consumption   : Less than 3.5 Watts
Cable   : 3 Wires (1.5 mm) Flexible or Armored Shielded Cable.

Flameproof Housing

Protection Class : IP-65 for Gas Gr. IIA, IIB & CMRI approved
                       Enclosure, CCOE (Optional).
Cabinet Material : Cast Aluminum alloy, LM-6
Cable Entry   : Double compression cable gland (Ex-Proof), ¾" ET-type
Dimension   : 248 mm (H) x 242 mm (W) x 126 mm (D)
Mounting   : Wall Mounting / Stand Mounting / Duct Mounting
Weight   : Approx. 2.0 Kg.

Environmental

Operating Temp.   : -40 to +120 C
Storage Temp.   : -50 to +130 C
Humidity   : Less than 95% Non-Condensing.

Error Monitoring

During Sensor break / open, the Display shows 'SENSOR OPEN' & 4-20mA output goes down to 3.7mA.

Accessories (Optional)

C€ certified 24 VDC Power supply
Canopy mounting stand.
SCADA Software
RS-485 to USB convertor
RS-232 to RS-485 convertor
Hooter cum Flasher.
Remote Control.