



Sensepoint XCD RFD SPECIFICATIONS

Remote Flammable Gas Monitor

| | |
|------------------------------|---|
| Use | 3-wire, 4-20mA, transmitter with optional Modbus for use with remotely mounted flammable gas sensors 705 and 705HT |
| Electrical | |
| Input Voltage Range | 16 to 32VDC (24VDC nominal) |
| Max Power Consumption | Max 5 Watts. at 24Vdc (see section 2 regarding maximum in rush current) |
| Current Output | 4-20mA (Source or Sink) ≥0.0<1.0 mA: Fault 4.0 mA to 20.0 mA: Inhibit (during configuration/user settings) 22.0 mA: Maximum over range |
| Terminals | 15 x screw terminals suitable for wire diameter 0.5mm2 to 2.5mm 2 (20AWG to 13AWG) |
| Relays | 3 x 5A@250VAC. Selectable normally open or normally closed (switch) and energized/de-energized (programmable) |
| Communication | RS485, Modbus RTU |
| Construction | |
| Material | Epoxy painted aluminium alloy or 316 Stainless Steel |
| Weight (approx) | Aluminium Alloy LM25: 4.4lbs 316 Stainless Steel: 11lbs |
| Mounting | Pole or wall mounting |
| Cable Entries | 2 x ¾" NPT |
| Sensor Entries | ¾" NPT |

| Detectable Gases and XCD RFD Sensor Performance | | | | | | | | | | | | |
|--|----------------------------------|---------------|--------|--|-------------------|--------------------------|--------------------------|-----------|---------------------------|---------------------------|-------------------------|-------------------------|
| Gas | User Selectable Full Scale Range | Default Range | Steps | User Selectable Cal Gas Range | Default Cal Point | Response Time (T60) Secs | Response Time (T90) Secs | Accuracy | Operating Temperature Min | Operating Temperature Max | Default Alarm Points A1 | Default Alarm Points A2 |
| 705 Standard Temperature Sensor (UL/CSA Approved) | | | | | | | | | | | | |
| Flammable 1 to 8* | 20 to 100%LEL | 100%LEL | 10%LEL | 25 to 95% of selected full scale range | 50%LEL | | <25 | <±1.5%LEL | 67°F (-55°C) | 176°F (80°C) | 20%LEL ▲ | 40%LEL ▲ |
| 705 High Temperature Sensor (UL Only) | | | | | | | | | | | | |
| Flammable 1 to 8* | 20%LEL | 20%LEL | | | 10%LEL | | <25 | <±1.5%LEL | 67°F (-55°C) | 302°F (150°C) | 10%LEL ▲ | 15%LEL ▲ |
| Flammable 1 to 8* | 20 to 100%LEL | 100%LEL | 10%LEL | | 50%LEL | <6 | <10 | <±1.5%LEL | 67°F (-55°C) | 302°F (150°C) | 20%LEL ▲ | 40%LEL ▲ |

*Contact Honeywell Analytics for availability.

▲ Rising Alarm

| Gas | Displayed Name | 705 Sensor Calibration Gas | Adjust to | 705HT Sensor Calibration Gas | Adjust to |
|-----------|--------------------------------|----------------------------|-----------|------------------------------|-----------|
| Methane** | CH ₄ | 50% Methane/air | 50% | 50% Methane/air | 50% |
| Hydrogen | H ₂ | 50% Hydrogen/air | 50% | 50% Hydrogen/air | 50% |
| Butane | C ₄ H ₁₀ | 50% Butane/air | 50% | 50% Butane/air | 50% |
| Propane | C ₃ H ₈ | 50% Propane/air | 50% | 50% Propane/air | 50% |
| Pentane | C ₅ H ₁₂ | 50% Pentane/air | 50% | 50% Pentane/air | 50% |
| Ethylene | C ₂ H ₄ | 50% Ethylene/air | 50% | 50% Ethylene/air | 50% |

**Performance testing conducted with Methane calibration only.

NOTES

Performance figures are taken at 20~25°.

1. Measured using a sample humidity of 50%RH, applicable between 10 and 90% of full scale.
2. Measured using test units calibrated at 50% of full scale.

Response time (T90) may increase when operating in lower or higher temperature conditions or when gas is introduced with the Weather Protection accessory fitted.

Should it be exposed to other HC then non linear response is expected. For linearized operation other than Methane contact HA for alternate parts. This calibration enables 100% functional test prior to dispatch.

This calibration does not remove need for calibration & test as part of commissioning at site. For gases other than Methane the unit has to be calibrated at site using target gas. Data represents typical values, and system conditioning may be required to achieve stated result. Contact Honeywell Analytics for details.

| Environmental | |
|------------------------------|---|
| IP Rating | IP66 in accordance with EN60529:1992, NEMA 4X (Tested by third party laboratory) |
| Operating Temperature | -40°F to +149°F (-40°C to +65°C) |
| Operating Humidity | Continuous 20-90%RH (non condensing), Intermittent 10-99%RH (non condensing) |
| Operating Pressure | 90-110kPa |
| Storage Conditions | -13°F to +149°F (-25°C to +65°C) |
| Certification | |
| US | cCSAus approved for Class I, Division 1, Groups B, C & D Hazardous Locations. Performance approved to the following standards; ANSI/ISA-12.13.01 |
| Canada | cCSAus approved for Class I, Division 1, Groups B, C & D Hazardous Locations. Performance approved to the following standards; C22.2 No. 152-M1984 |
| Performance | C22.2-152, ANSI/ISA 121301 |

Find out more

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