

## Model AcuLoop Plug In Display

The **Shaw Moisture Meters Model AcuLoop** is a 4-20 mA, loop powered, plug in display module for use with the AcuDew Dewpoint Transmitter.

Easy to install and lightweight, this four-digit, LED display is easily supported on the AcuDew dewpoint transmitter body. Where the AcuDew is installed horizontally or vertically, the AcuLoop can be rotated for optimum viewing with orientation adjustable to 210 degrees on its stem and 360 degrees (at four x 90-degree increments) on its axis.



The AcuLoop connects via the robust M12 connector of the AcuDew dewpoint transmitter, which is loop powered through the AcuLoop display module.

The 4–20 mA span is fully programmable to correspond with any AcuDew dewpoint range. When paired with the AcuDew, various dewpoint ranges are available covering an overall range from -100 °C to + 20 °C dewpoint (-148 °F to +68 °F). The output units can be displayed in °C dewpoint, °F dewpoint, ppm(v), ppb(v), g/m<sup>3</sup> or lb/MMSCF.

Self-contained, robust and with an IP65 rating, this display is ideal for use in a wide range of industrial environments where local indication is required.

\* AcuDew Dewpoint Transmitter sold separately

### Features

- Various ranges available: overall range -100 °C to +20 °C (-148 °F to +68 °F) dewpoint (with an AcuDew)
  - P (Purple): -100 to 0 °C dp, 0 - 6,000 ppm(v)
  - S (Silver): -100 to -20 °C dp, 0 - 1,000 ppm(v)
  - G (Grey): -80 to 0 °C dp, 0 - 6,000 ppm(v)
  - R (Red): -80 to -20 °C dp, 0 - 1,000 ppm(v)
  - B (Blue): -80 to +20 °C dp, 0 - 23,000 ppm(v)
- Weatherproof rating IP65/ NEMA 4
- Large four-digit, digital display
- Output configurable in °C dewpoint, °F dewpoint, ppm(v), ppb(v), g/m<sup>3</sup> and lb/MMSCF
- 2 wire, loop powered integrated signal indicator
- 4-20 mA retransmission signal
- 4-20 mA span configurable using the two-button layout on the display
- Self-contained, robust and reliable
- M12 connection for use with the AcuDew dewpoint transmitter and connecting cable
- 210 degrees axis rotation

## Specifications

- **Electromagnetic Compatibility (EMC):**  
Immunity: complies with EN 61000-6-1:2001  
Emissions: complies with EN 61000-6-3:2000
- **Display:** Four digit LED (height 9.2 mm)
- **Display Accuracy:** 0.2% F.S.
- **Voltage Drop:** 3.3 V DC
- **Overload Current:** 40 mA DC
- **Power Supply:** 4-20 mA, 2-wire loop power
- **Output Signal:** 4-20 mA Linear
- **Operating Voltage:** 7 - 24 V DC reverse polarity protected
- **Operating Temperature:** -20 °C to +75 °C
- **Rotating Angle:** 210°
- **Dimensions:** 66 mm (w) x 79.75 mm (d) x 64.77 mm (h)
- **Weight:** 125 g
- **Weatherproof Classification:** IP65
- **Connections:** M12 connector
- **Mechanical Warranty:** 24 months in case of faulty workmanship and defective parts

## Related Products

### Model AcuDew Dewpoint Transmitter

A compact, two wire 4-20 mA loop powered transmitter, suitable for trace moisture measurement in process gases or dry compressed air.



#### Features:

- SHAW AutoCal
- Utilises the Ultra High Capacitance SHAW dewpoint sensor
- Output configurable in °C dewpoint, °F dewpoint, ppm(v), ppb(v), g/m<sup>3</sup> and lb/MMSCF
- Easy to install and operate
- Requires little or no maintenance
- Supplied with a Certificate of Calibration traceable to National and International Humidity Standards

## How To Order

To order a Model AcuLoop Plug In Display

AcuLoop - Range (R) - Units (U)

R - Choose the required range of the AcuDew Dewpoint Transmitter using the AcuDew Specification Sheet.

**U - Choose required units for the AcuLoop display:**

**C:** °C dewpoint **F:** °F dewpoint **P:** ppm(V) **B:** ppb(V)

Example:

To order a Model AcuLoop for an AcuDew with a measuring range of -80 °C to 0 °C (-112 °F to +32 °F) dewpoint (grey sensor), specifying °C as units, please order as **AcuLoop-G-C**

## General Assembly Diagram

