

Model AcuLoop

Plug In Display

Instruction Manual

Issue 1



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1.0 Unpacking Your Shaw Moisture Meters AcuLoop

Please examine the AcuLoop package for any damage or mishandling. If any damage is evident please notify the carrier and the Shaw Moisture Meters representative from where this unit was purchased.

You should have received (if ordered):

- 1 AcuLoop plug in display
- 1 instruction manual

If anything is missing please contact your distributor immediately.

General Description

The SHAW AcuLoop is a 4 digit, LED, plug in display that connects directly to the AcuDew dewpoint transmitter. This plug in display is self contained, robust and reliable. Easy to install and lightweight, the AcuLoop is easily supported on the AcuDew dewpoint transmitter body and is adjustable to 210 degrees on its stem and 360 degrees on its axis.

- Output configurable in °C dewpoint, °F dewpoint, ppm(v) and ppb(v)
- Weatherproof rating IP65/NEMA 4
- 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
- M12 connection for use with the AcuDew dewpoint transmitter and connecting cable

2.0 Connecting the AcuLoop to the AcuDew Dewpoint Transmitter

BEFORE YOU BEGIN - DISCONNECT THE POWER



1. If the AcuDew is already connected to the cable, disconnect by turning the locking ring anti-clockwise.



2. Align the keyed notch on the back of the AcuLoop with the keyed groove on the connecting cable and tighten.



3. Finger tight only.



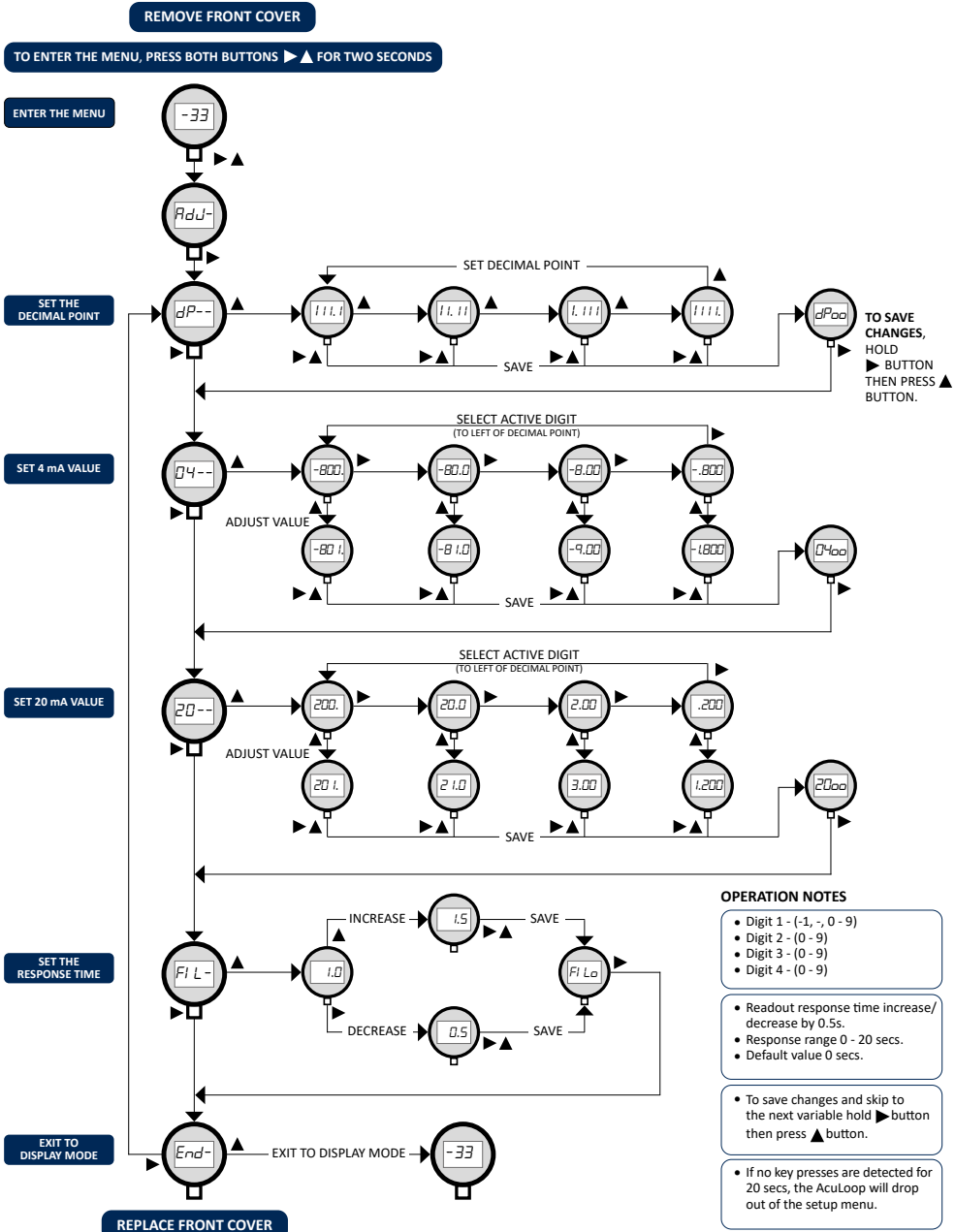
4. Gently push the AcuLoop display on to the AcuDew.



5. Turn the locking ring clockwise to secure.

3.0 AcuLoop Plug In Display Module Setup Instructions

TO POWER THE AcuLoop FOLLOW THE INSTRUCTIONS IN SECTION 3 OF THE AcuDew MANUAL

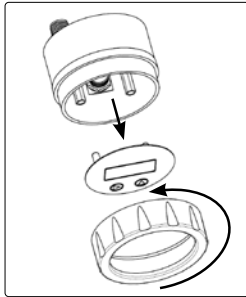


4.0 Rotating the Display on its Axis

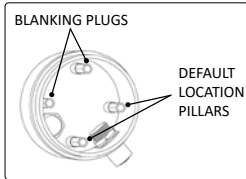
Easy to install and lightweight, the AcuLoop is supported on the AcuDew dewpoint transmitter body. Where the AcuDew is installed horizontally or vertically, the AcuLoop can be rotated for optimum viewing, 360 degrees (at four x 90 degrees increments) on its axis.



How to Rotate the Display



1. Unscrew and remove the glass window from the indicator unit.
2. Gently lever out the keyboard using a small plastic levering tool inserted behind the PCB. Ensure that no damage is done to the PCB or components.
3. Remove the two plastic blanking plugs which are fitted to two of the four location pillars.
4. Align the display PCB location pins with the chosen pillars. Gently push the display back into the body of the Local Display Unit, ensuring that the wires are not trapped.
5. Replace the glass cover and screw hand tight.



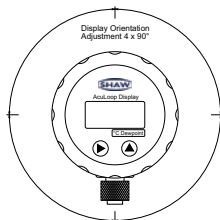
5.0 Rotating the Display on its Stem

The AcuLoop can be rotated for optimum viewing, with adjustable orientation to 210 degrees on its stem.

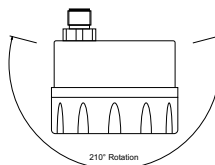


6.0 General Assembly Diagram

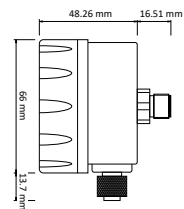
FRONT VIEW



TOP VIEW



SIDE VIEW



7.0 AcuLoop Specification

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

8.0 Guarantee

All Shaw Moisture Meters products are guaranteed for two years from the date of purchase, some exclusions are as follows: removing protective guard from any sensor, subjecting sensor to shock or black list gases e.g. caustic and acidic gases like ammonia and chlorine, tampering with any internal electronics and applying incorrect supply voltage to meters, subjecting to excessive flow rate, contaminants and general misuse.

If you suspect a fault which you feel needs to be attended to under guarantee please contact us for assistance hopefully to help fault find and effect a remedy and if this is not successful to give precise instructions for the return for inspection.

No equipment will be replaced or repaired without having been returned for inspection either to ourselves or an authorised distributor.

