**AMD-100
Dew Point Monitor**

The AMD-100 is a compact, easy to install and operate, compressed air line dew point monitor. The instrument incorporates a digital display and a sensor to measure dew point.

The AMD-100 is designed for use in a wide variety of applications ranging from automotive, and similar, paint spray operations to wood finishing. This monitor can be used in virtually any commercial or industrial process that requires dew point monitoring of compressed air.

Standard Features

- Compact Design
- Digital Display
- 4-20 mA Output
- High Integrity Polycarbonate Enclosure
- 120 VAC Plug Supplied, 24 VDC Optional

- 2 Levels of Alarms
- Visual Alarms
- High Capacity Relays
- Protected Maintenance Functions
- User Programmable Alarms & Relays

AMD-100
DMT152 Transmitter Used for Desiccant Dryers

-112°F...+68°F (-80°C...+20°C)

- Highly accurate: ±2°C (±3.6°F) adsorbent dryer measurement range
- Pressure up to 725 PSI (50 bar)
- DRYCAP® sensor technology

DMT-152

AMD-102
DMT132 Transmitter Used for Refrigerant Dryers

-4°F...+122°F (-20°C...+50°C)

- Highly accurate: ±1°C (±1.8°F) refrigerant dryer measurement range
- Pressure up to 290 PSI (20 bar)
- HUMICAP® sensor technology
- Excellent long-term stability
- Resistant to compressor oil

DMT-132

AMD-100 SERIES
Model Comparison

Model	Dryer Type	Dew Point Instrument	Sensor Range	Max. PSI*
AMD-100	Desiccant	DMT-152	-112°F - 68°F	725 psig
AMD-102	Refrigerated	DMT-132	-4°F - 122°F	290 psig

* Consult Aircel for Pressures Over 725 PSIG

Due to a continuous program of product improvement, specification and dimensions are subject to change without notice.

2-wire indicator with 4-20 mA output

Display
6800

Power supply
10...28 V

4-20 mA

0/4-20 mA
0-5/10V

High alarm

Low alarm
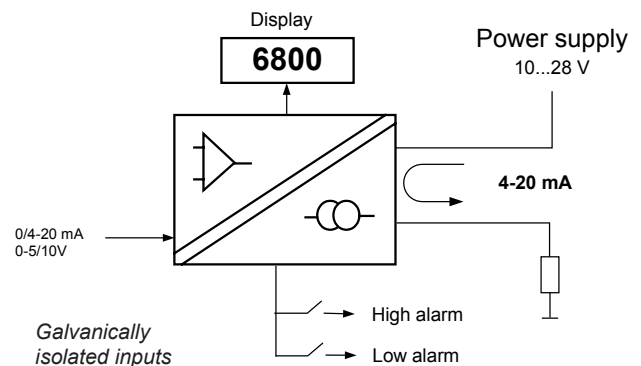
Galvanically isolated inputs

AMD-100 SERIES Model Comparison

AMD-100 Series

Alarm Adjustment: Both alarms are user adjustable
Display: 4 Character, high contrast dot matrix LCD with backlight
Response Time: t90 = 30 sec
Accuracy: +/- 10% of reading
Temperature Range: 32° to 104° F (0° to +40° C)

Outputs: Relays: 2 10A SPDT contacts, 3 gas alarms and 1 fault. Analog: 4-20mA
Power: 120 VAC, or 24 VDC, 15W
Power Connection: Supplied with strain relief for 0.20 to 0.35 inch diameter cable
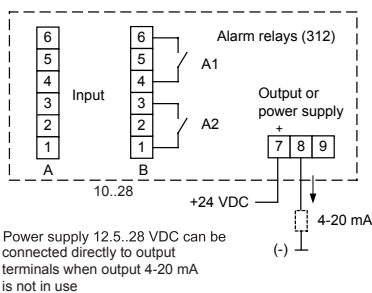Inlet Air Line Connection: 1/4" compression fitting S.S
Enclosure: Polycarbonate

General

Display: 4 digits red LED
Power supply range: 12.5-28VDC
Maximum load: See table below
Galvanic isolation: 2000 VDC/ 1 min.
Measuring rate: 3…4 samples/s.
AD-converter: 16 bit
Operating temperature: (0..60°C) 32°F…140°F
Storage temperature: (-20….+70°C) -40°F…158°F
Humidity (non condensing): 0..95 %RH
Weight: 250 g (instrument only)
Terminals: Max. 2.5 mm2

Process Input

Current: 0..20 mA, 4..20 mA, -20..+20 mA
Voltage: 0..5 V, 0..10 V, -10..+10V
Display scaling: freely scaleable by front keys
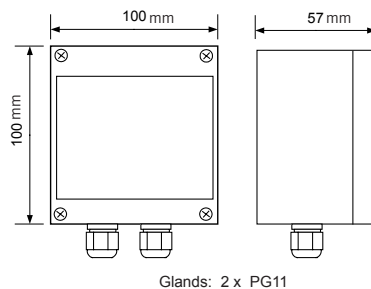Input resistance: 5 ohm (current), 1 Mohm (voltage)

Output

2-wire output: 4-20 mA
Straight and reversed: 4-20 mA or 20-4 mA
Accuracy: 0.1 % of span
Output-DAC: 12 bit
Output limiter: 21 mA (typical)
Sensor break indication: 3.5 or 21 mA

Alarms

Alarm relays: 2 solid state relays (SSR), max. 250 VAC, 150 mA
Alarm reset: Automatic or manual (hold)
Hysteresis: Selectable 0..100 %
Alarm types: Low or high alarm (NO or NC) Only one relay can be energized at a time

Connections

Alarm relays (312)
A1
A2
Input
Output or power supply
+
7 8 9
+24 VDC
4-20 mA
(-)
10..28
A   B

Power supply 12.5..28 VDC can be connected directly to output terminals when output 4-20 mA is not in use

Enclosure Dimensions

100 mm
100 mm
57 mm
Glands: 2 x PG11

Maximum output load

Ohm
$RL=(+V-10) / 0.02$ (ohm)
1000
800
600
400
200
0
10 14 18 22 26 30 V
Power supply
$RL=(+V-10) / 0.02$