



Portable TRB100A

Pressure dew point meter
for Compressed Air and Inert Gases

Instrument TRB100A

was designed to meet the requirements for accurate determination of the moisture content in compressed air and nitrogen. The partial pressure of water vapor in the gas corresponds to pressure dew point (PDP). It is not therefore necessary to measure other parameters (like temperature and relative humidity) and then determine PDP incorrectly.

Obtained value of PDP is visible on the display and can also be available on optional contacts for external data processing/data-logging.



CERTIFICATE OF CALIBRATION

tioned item has been calibrated at the following points in the Michell Instruments Humidity Calibration Test Equipment traceable to the NATIONAL PHYSICAL LABORATORY, Middlesex, United Kingdom and to NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY, Gaithersburg, Maryland, USA.
Dew point: Traceability to National Physical Laboratory: -90 to +90 deg C
Dew Point Traceability to National Institute of Standards & Technology : -75 to +20 deg C.

Number 503764

29 October 2016

ial No

DD36-020

EA2-TX-100

Reference Number A58017

Test Equipment Q0428

Instrument Serial No

obtained by comparison against a Michell Instruments S4000 Precision Dewpointmeter

Generated Dew point °C

Measured Dew point °C

-100.0	-100.0
-80.3	-80.2
-59.4	-59.3
-40.1	-40.1
-20.0	-20.0
0.6	0.6
18.1	18.1

Scope of delivery TRB100A:

- Ceramic moisture sensor easydew
- Sensor chamber which is fed with sample of air / gas
- Large LED display
- fast connectors Ø4mm for both gas inlet and outlet
- Needle valve to control an amount of gas sampling
- Robust portable casing
- Optional analog outputs 4-20 mA
- Calibration certificate



ZDP100A

Instrument without compromises

Product: **TRB100A**
 Range: -100/+20 °C
 Signal: 4-20 mA
 PS: 10 barg
 Power: 230 VAC
 IP: 40
 S/N: F464-16-001



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Parameters	Data
Sensor PDP	Michell Instruments easidew, ceramic, traceable 13 point calibration Brand names: ZHM100, SP-ESH420, ...
PDP range	-100°C _{dp} do +20°C _{dp}
Display	°C
Pressure range	10 barg, optional up to 350barg
Operating temperature	-40°C to +60°C
Accuracy	+/- 1°C from -59°C _{dp} to +20°C _{dp} ; +2/°C from -100°C _{dp} to -60°C _{dp}
Resolution	0.1°C from -79°C _{dp} do +20°C _{dp} ; +/- 1 digit; 1°C from -100°C _{dp} to -80°C _{dp} ; +1/digit
Voltage	230VAC
Power	2W
Protection	IP40
Power supply	230VAC IEC ; 4-20mA -2x 4mm "banana plugs"
Air connection	two 4 mm fast-action connectors for 4 mm PTFE hose
Weight	1,8 kg
Sensor's calibration	by exchange

