

TK-100 Dew point On-line / Transmitter

- Fully calibrated at TEKHNE factory
- Innovative Al_2O_3 technology
- Measuring range : -100 to +20 °Cdp
0-2000PPM (optional)
- Accuracy : ± 2 °Cdp
- Pressure : 10^{-4} Pa to 30 MPa
- TK-100 On-line with monitor
TK-100 Transmitter without monitor
- Easy installation

Easy

TEKHNE Corporation, a Japanese manufacturer, experienced dew point measurement over 40 years, is manufacturing innovative TK-100 series Hygrometer.

You can easily start measurement. TK-100 On-line Hygrometer offers you a complete set for continuous measurement, including display monitor. What you need is 100 to 240 VAC power supply and sample gas connection. Also, you can select TK-100 Dew Point Transmitter, which can be used "stand-alone" basis with 4-20 mA signal output, powered by 12-28 VDC.

Flexible

TEKHNE TK-100 series are for dew point measurement in air or inert gas. Put the sensor into your process line through 5/8" UNF or 1/8" NPT by using Optional sampling block. 1/8 DIN display unit can be set up to 1,000 m far away from the Transmitter.

The flow rate for the process line should be 1 to 10 NL/min (with optional sampling block) or 0.5 to 10 m/sec (without optional sampling block), at a temperature between -20 to +60 °C and in-line pressure up to 30MPa. Filters for removing dust are always recommended.



High Quality

TEKHNE Ceramic Sensor by Al_2O_3 is designed to secure the best mixture of accuracy, high response speed, and long-term stability. Most advanced sensor technology is used for this purpose.

Also, the advanced microprocessor technology realized fully temperature compensation mechanism, which minimizes the effect by process temperature to the dew point measurement. The -100 to +20 °Cdp output is converted to stable and linear 4-20 mA output in the TK-100 Transmitter.

Monitor for TK-100 On-line



If power supply and display are required, TK-100 On-line monitor is included in TK-100 On-line.

Technical Specifications

=TK-100 Transmitter=

Measurement range	-100 to +20 °Cdp 0-2000 PPM (optional)
Accuracy	±2 °C DP
Analog output	4-20 mA (3-wire technology)
Power supply	12 to 28 VDC
Operating temperature	-20 to +60 °C
Operating pressure	10 ⁻⁴ Pa to 30 MPa

=TK-100 Monitor=

Display	5 digit LED
Measurement Ranges	-100 to +20 °Cdp
Outputs	linear 4-20 mA
Alarm Relays	3 relay contact
Operating environment	0 to +50 °C (35 to 85 %RH)
Power supply	100 - 240 VAC, 50/60 Hz
Panel Cutout	92 W x 45mm H

Drawing

