

**TEKHNE**

# HIGH QUALITY DEW POINT HYGROMETER



## TK-100

It's innovative, competitive and simple. This will be the world standard.

### Easy

TEKHNE Corporation, a Japanese manufacturer, experienced dew point measurement over 30 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 240VAC power supply and sample gas connection. Also, you can select TK-100 Dew Point Transmitter, which can be used 'stand-alone' basis with 4-20mA signal output, powered by 12-28VDC.

### High Quality

TEKHNE Ceramic Sensor 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 realised fully temperature compensation mechanism, which minimises the effect by process temperature to the dew point measurement. The  $-100$  to  $+20^{\circ}\text{C}$  dew point output is converted to stable and linear 4-20mA output in the TK-100 Transmitter.

### 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 1,000m far away from the Transmitter.

The flow rate for the process line should be 1 to 5NL/min (with optional sampling block) or 0.5 to 10m/sec (without optional sampling block), at a temperature between  $-20$  to  $+60^{\circ}\text{C}$  and in-line pressure up to 30MPa. Filters for removing dust are always recommended.

## TEKHNE Dew Point Hygrometer

# TK-100

- Wide Measurement Range at  $-100$  to  $+20^{\circ}\text{C}$
- $\pm 2^{\circ}\text{C}$  Accuracy
- Quick Response
- Fully calibrated at TEKHNE factory, JAPAN
- Price Competitiveness
- Short Delivery Time
- Enhanced Technical Support
- Traceable to NIST/NPL



### Technical specification

#### TK-100 Transmitter

Measurement Range	$-100 \sim +20^{\circ}\text{C}$ dew point
Accuracy	$\pm 2^{\circ}\text{C}$
Output	linear 4-20mA
Operating Temp	$-20$ to $+60^{\circ}\text{C}$
Operating Pressure	10-4 to 30MPa
Flow Rate	1 to 5 NL/min (with Sampling Block) 0.5 to 10m/sec (without Sampling Block)
Power Supply	12 to 28VDC

#### TK-100 On-line monitor

Display	4 digit LED
Power Supply	100 to 240VAC, 50/60Hz
Output	linear 4-20mA
Alarm	2 relay contact
Power Consumption	LESS 10W
Operating Temperature	$0$ to $+50^{\circ}\text{C}$
Monitor Dimension	1/8 DIN case, 96W $\times$ 48H $\times$ 116.5mmD
Panel Cutout	92W $\times$ 45mmH

### Dimensions

