

PORTABLE HYGROMETER**TK-100 - Model YN**

- Measurement Range from -100 to $+20$ degC
- ± 2 degC Accuracy
- Compact Size, Light Weight
- Long Battery Life
- Easy Connection to sampling line
- Simple Operation
- Traceability to National Standard

**Overview**

The Hygrometer TK-100 Model YN is a battery-powered portable instrument. It is suitable for the field measurements where electrical power is inconvenient or the multiple-points measurements. TK-100 Dew Point Transmitter is set inside of the instrument for the measurement from -100 degC dp to $+20$ degC dp, at an accuracy of ± 2 degC dp.

TK-100 Transmitter

The core measurement tool for Model YN is TK-100 Dew Point Transmitter, manufactured by TEKHNE Corporation, Japan. TEKHNE Ceramic Sensor is designed to secure the best mixture of accuracy, high response speed and long term stability. Most advanced technology is used for this purpose.

Also, the advanced microprocessor technology realized temperature compensation mechanism, which minimizes the effect by process temperature to the dew point measurement.

Portability

Model YN is small, by $160 \times 160 \times 88$ mm, and light weighted at 2 kg. It is developed based on the customers' voice; "easily bring it on business trip by train or by air".

Power

Model YN contains re-chargeable Lithium battery inside of the instrument. The battery makes the instrument work for 24 hours, by only 3 hours charge time. You can use it continuously over 24 hours, by the operation with battery charger connecting.

Battery status can be easily monitored by 3-status display for AC Power Supply, Charge and Discharge exist in the front panel.

Easy to Use

One of the most important features for such instruments is how easily users start operation. Model YN needs only 3 steps for measurement, those are; Charge the battery, connect the line and press start button. So the product does not choose users, but users choose the product, right now.

Options

- } 6 mm or 1/4" OD Pipe Connection
- } Sampling Set
 - including Filter, Needle Valve and Flow Meter
- } Carry Case

Technical Specifications

Display	3.5 digit LCD	Output	4~20 mA
Range	-100 to +20 degC dp	Power	Re-chargeable Battery, or 100 – 240VAC
Accuracy	+/- 2 degC dp	Charge time	3 hours
Operating Conditions:		Run time	24 hours
Pressure	1 MPa max.	Weight	2 kg
Flow Rate	1 to 5 L/min	Size	160 W x 88 H x 160mm D
Temperature	0 to +40 degC	Sample Connection	6 mm (standard), or 1/4"(optional) OD pipe connection
Humidity	45~85%	Traceability	NIST Traceable
Storage Conditions:			
Temperature	-10 to +60 degC		
Humidity	45~85%RH		

Dimensions

