

## No. 7435-00 MULTIPLE MEASURING SYSTEM FOR TEMPERATURE AND HUMIDITY MODEL SK-5RAD-SP



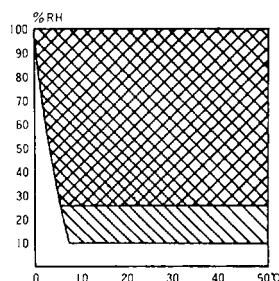
SK-5RAD-SP

## FEATURES

- Easy to read by high brightness digital display
- Assure high accuracy in compact body
- Eliminate an aging thanks to Pt100 ohm sensors
- With error message display functions avoiding possible accident and mis-operation
- Alarm message "L" is displayed in case of insufficient voltage
- High accurate sensors ensure accuracy within 0.2%  $\pm$ 1 digit
- Brushless motor is available at option

## PRINCIPLE OF MEASUREMENT

This model employs 'DRY AND WET BULB METHOD' which has been so called as most stable method for measurement of humidity. The R/V converter inside detects the temperature measured by two Pt 100 ohm sensors and then the data is processed by the micro-computer installed inside so that high accurate relative humidity, absolute humidity and dew point are obtained.



\* Measuring range

- ▣ part and ▤ part show the measuring range of SK-5RAD-SP.
- ▤ part shows the range can be measured for continuous long time.
- ▣ part shows the range can be measured for continuous short time.

## SPECIFICATIONS

Model	No. 7435-00 SK-5RAD-SP				
Elements	Dry bulb temperature	Wet bulb temperature	Relative humidity	Dew point temperature	Absolute humidity
Measuring range	0 to 50.0°C	0 to 50.0°C	—	—	—
Operating range	—	—	0 to 99.9%RH	-40 to 50.0°C	0 to 83 g/m <sup>3</sup>
Display	7 segment red LED 3 digits	7 segment red LED 3 digits	7 segment red LED 3 digits	7 segment red LED 3 digits	7 segment red LED 2 digits
Resolution	0.1°C	0.1°C	0.1%RH	-40 to -10°C : 1°C -9.9 to 50°C : 0.1°C	1 g/m <sup>3</sup>
Measuring Accuracy	within $\pm$ 0.2% F.S.	within $\pm$ 0.2% F.S.	—	—	—
Operation Accuracy	—	—	within $\pm$ 0.01%	within $\pm$ 0.01%	within $\pm$ 0.01%
Indication Accuracy	0.2% F.S. $\pm$ 1 digit	0.2% F.S. $\pm$ 1 digit	1% $\pm$ 1 digit	0.1°C $\pm$ 1 digit	within 1%
Sampling time	about 4 sec.				
Detecting element	Pt100 $\Omega$	Pt100 $\Omega$	—	—	—
Output	0 to 50°C / 0 to 1 VDC	—	0 to 100%RH/ 0 to 1VDC	—	—
Output impedance	500 $\Omega$	—	500 $\Omega$	—	—
Airflow speed	more than 3 m/s at outlet of airflow			—	—
Operating ambient	Temperature: 0 to 50°C (wet bulb shall not frozen)			Humidity: no condensing	
Power requirement	100 VAC $\pm$ 10% 50/60 Hz				
Power consumption	100 VAC 0.1A				
Dimensions	Indicator	311 (W) x 192.5 (H) x 144 (D) mm			
	Detector	80 (W) x 264 (H) x 110 (D) mm			
Weight	Indicator: about 4.5 kg		Detector: about 1.5 kg (including cord)		
Standard accessories	2 m power cord: 1 pc. Wicks: 20 pcs. Remote cord: 10 m (up to 50 m at option) Water supply bottle				