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TECHNOLOGY GROUP

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Met One Instruments

083F Relative Humidity Sensor
085A Relative Humidity / Temperature Sensor

The 083F/085A Relative Humidity Sensor is a highly sensitive and stable temperature measurement tool that provides outstanding accuracy. It is reliable in the full range of relative humidity conditions, from 0-100%, performing equally well in meteorological, industrial, laboratory and other demanding settings. Model 085 is a combined relative humidity/temperature sensor that uses a dual element thermistor temperature sensor. It can be used with a variety of radiation shields.

The 083F/085A Relative Humidity Sensor measures variance in the capacitance change of a one-micron thick dielectric polymer layer. This film absorbs water molecules through a metal electrode, and causes capacitance change proportional to relative humidity. The thin polymer layer reacts very quickly, providing up to 90% of the final value of relative humidity in fewer than five seconds. The sensor's response is essentially linear, with small hysteresis, and negligible temperature dependence



083F Relative Humidity Sensor

FEATURES:

- All solid state construction, digital electronics
- Fast response of less than 5 seconds to 90% of final value
- Low power consumption of 4 mA at 12 VDC
- Easily cleaned using distilled water
- 0-1V output for 0-100% RH
- Resistive output for temperature
- Will operate from a 12 VDC battery

Power

Input Power:	4 mA at 12 VDC (10-14 VDC)

Relative Humidity

Sensing Element:	Thin film polymer capacitor
Range:	0 - 100% relative humidity
Temperature Operation Range:	-50°C to +50°C (-58°F to 122°F)
Response Time:	10 sec. with 2 m/s aspiration
Temperature Coefficient:	0.04% RH/°C
Accuracy:	±2.0% from 0 – 100% humidity
Output:	0 to 1 VDC – Standard (0 to 5.0 VDC Optional)

Temperature

Temperature Sensor:	Thermistor (precision multi-element)
Temperature Operation Range:	-30°C to +50°C (-22°F to 122°F)
Accuracy:	±.15°C (0.27°C)
Output:	Resistive

Physical

Weight:	2.5 oz (70.9 g)
Size:	.75 in (19.05 mm) diameter, 7.5 in (190.5 mm) length

Ordering Information

083F-6	For use with the 076B Motor Aspirated Shield
083F-35	For use with the Naturally Aspirated Shield - Requires cable P/N 2348 (Specify Length ft/m)
085A-6	For use with the 076B Motor Aspirated Shield
085A-35	For use with the Naturally Aspirated Shield - Requires cable P/N 2348 (Specify Length ft/m)

Specifications are subject to change at any time.

Met One Instruments

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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