

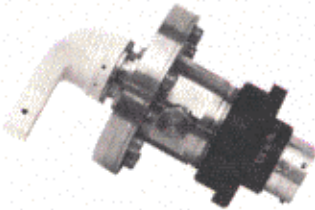


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model 137 aircraft hygrometer



Model 137-C3



Model 137-S10A-P



Model 137-S3A-P

The Model 137 Aircraft Hygrometer is a rugged, shock mounted, military qualified instrument for the primary measurement of dew point in flight or in installations with existing flow, such as wind tunnels. It features a miniature remote sensor employing a platinum resistance thermometer, and has 15 feet of interconnecting cable to the control unit. Precision calibration units for the linear analog outputs are included. Power 115 VAC \pm 10%, 50 to 1000 Hz, 50 watts nominal.

BASIC EQUIPMENT

Model 137 Aircraft Sampling System

Consists of 137-C3 Control Unit, 137-S10A-P Aircraft Sampling Dew Point Sensor and 15 feet of cable. Sensor is designed for mounting through the skin of an aircraft, either left or right hand mounting. Sensor mount designed to provide a static pressure sample at the correct mass flow rate across the dew point mirror. 0 to 50 MVDC output (137-C3-S10A-P-M)
 0 to 5 VDC output (137-C3-S10A-P-V)

Model 137 Duct Sampling System

Consists of 137-C3 Control Unit, 137-S3A-P Duct Sampling Dew Point Sensor and 15 feet of interconnecting cable. Sensor is designed to thread into 1-5/16 x 12 boss, for mounting where flow is available. Sensor mount is equipped with integral air scoop which can be positioned to adjust correct flow across the dew point mirror. 0 to 50 MVDC output (137-C3-S3A-P-M)
 0 to 5 VDC output (137-C3-S3A-P-V)

OPTIONS

Standard Ranges

The analog outputs may be calibrated over any of the ranges listed below.

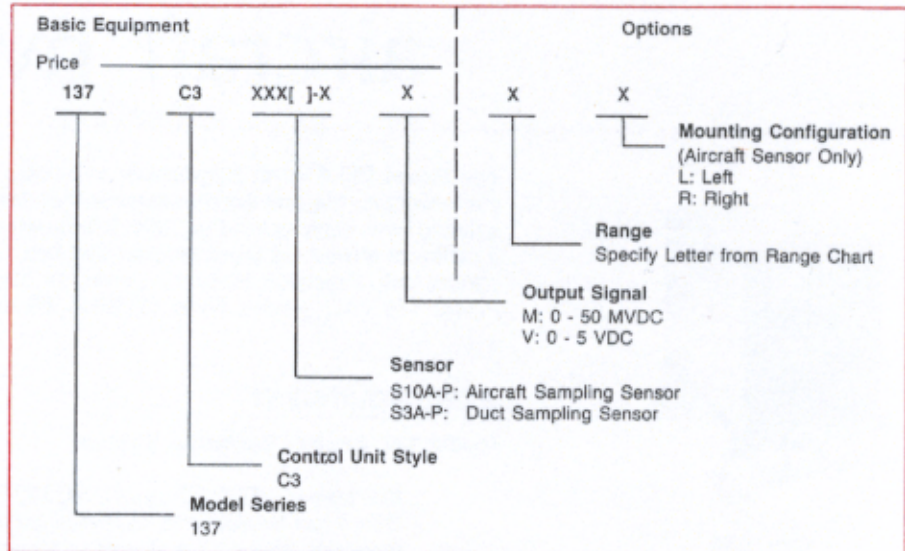
Range Chart

Designator	Range	Designator	Range
A	0°F to +200°F	N	-100°F to +20
B	-100°F to + 20°F	O	- 40°F to +12
C	0°F to +120°F	P	- 20°F to +10
D	+ 80°F to +200°F	Q	- 10°F to +11
E	- 80°F to +120°F	R	- 70°F to +13
F	- 40°F to +100°F	S	-- --
G	- 50°F to + 50°F	T	-- --
H	- 20°F to +180°F	U	-100°C to + 5
I	0°F to +100°F	V	- 65°C to + 2
J	-100°F to +100°F	W	- 65°C to + 5
K	- 40°F to + 80°F	X	- 50°C to + 5
L	-100°F to +120°F	Y	0°C to +10
M	- 40°F to + 60°F	Z	-100°C to +10

Special ranges can be supplied for a one-time non-recurring charge

Mounting Configuration (Aircraft Sensor Only)

L: Left Hand Mounting
 R: Right Hand Mounting
 Left and Right defined for seated pilot.



How to Specify Your Model 137

1. Determine the sampling configuration of the dew point sensor, aircraft, or duct. Fill in sensor part number.
2. Select millivolt or voltage output. Fill in basic equipment price.
3. Define range from range chart. If special range required, leave blank space in part number and specify special range.
4. For the aircraft sensor only, specify left or right hand mounting (as judged if seated in pilot's seat).
5. Specify entire part number when ordering.

Example

To measure dew points in flight from an aircraft, 0 to 5 VDC output over the range of -65 to +50°C, with a left hand mount...

Part Number:
 137-C3-S10A-P-V-W-L



Model 137-MR

ACCESSORIES

Model 137-MR Meter Readout Unit

Scale Range -50 to +50°C, Input 0 to 5 VDC only, with 10 feet of interconnecting cable and shock mounts.