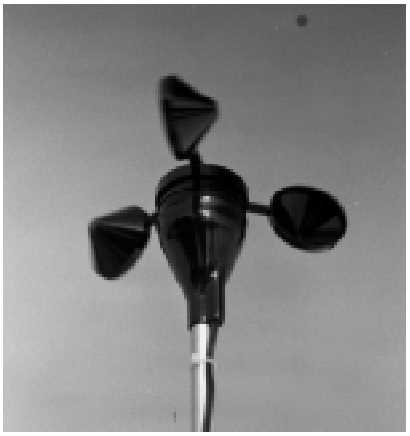
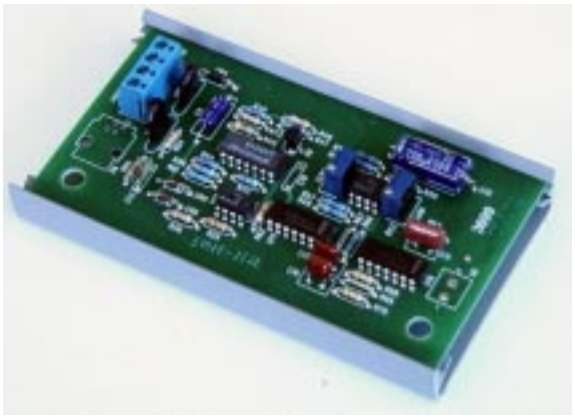
Wind Speed Sensor & Transmitter

Model A70-S



A75-104 Three Cup Anemometer



Track Mounted Transmitter

The A70 Wind Speed Transmitter converts the frequency of the anemometer signal into an electrical signal for input to a computer, meter or other instrumentation. The A75-104 is the most popular anemometer by reason of its ruggedness and low cost. The A75-104 produces an AC signal whose amplitude and frequency are proportional to wind speed. It has a distance constant of ten feet. The anemometer is injection molded using UV stabilized black Lexan to produce a very rugged and reliable sensor. Hundreds of thousands are in use through out the world. Extensive wind tunnel and field testing has shown this unit to maintain its accuracy remarkably well in field use. See A75-104 data sheet for detailed anemometer specifications. Higher performance sensors are available at additional cost. These units are used in conjunction with electronic data collection systems or for input to control systems. They are readily combined with meter relays to provide custom controls.

Systems are available with outputs of 0-1 mA, 0-1 V or 4-20 mA. All systems may be powered from either 120 VAC, 230 VAC or 12 - 24 VDC.

The instruments are available in a variety of packages including steel JIC boxes meeting NEMA 12 standards, weatherproof fiberglass enclosures meeting NEMA 4X, IP66 and IEC 529 standards and track mounted versions. NEMA 12 enclosures provide protection from dust for indoor applications. NEMA 4X enclosures may be used indoors or outdoors. They provide protection from corrosion, wind blown dust and rain and are undamaged by ice. Track mounted versions are intended for mounting inside an enclosure provided by the user. Where required, electrical connection to the sensor is via terminal block. A barrier strip is provided for connection to operating power.

Each system is provided with a detailed instruction manual.

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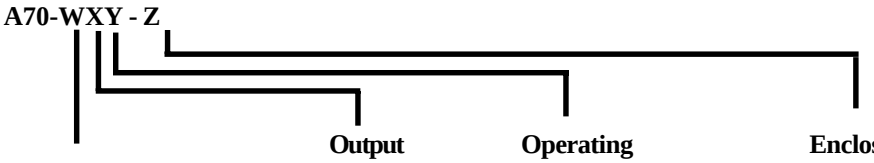
Model A70-S

Model Designation



Sensor		Output Signal	Operating Voltage	Enclosure	
S	Wind Speed	V 0-1 V	1 12 - 24 VDC	T	Track
D	Wind Direction	I 0-1 mA	6 120 VAC, 50/60 Hz	N12	NEMA 12
W	Wind Run	L 4-20 mA	7 230 VAC, 50/60 Hz	N4XFG	NEMA 4X Fiberglass
I	Solar Radiation			N4XSS	NEMA 4X SS
P	Barometric Pressure				
T	Temperature				
F	Fluid Flow				
W	Shaft Speed (RPM)				
R	Rainfall				

Example model number: A70- S L 6 - N12 / E

S	Wind Speed
L	4-20 mA Output Signal
6	120 VAC Operating Power
N12	NEMA 12 Enclosure
/E	0 - 100 MPH Range

Specifications

Range:	/E - 0 - 100 MPH, /M - 0 - 50 M/S, /K - 0 - 160 KPH
Sensor:	A75-104
Accuracy:	3 - 10 MPH ±1 MPH, 10 - 200 MPH ±5% of Reading
Size:	Track Mount 2.18” W X 5.0”L X 1” H
	NEMA 12 6”W X 8”H X 4” D
	NEMA 4X 6”W X 8”H X 4” D
Weight:	Track Mount 1 lbs
	NEMA 12 6 lbs
	NEMA 4XFG 4 lbs
	NEMA 4XSS 6 lbs
Operating Temperature:	Electronics 0/60° C Sensor -40 / 60° C
Connectors:	Barrier strips to accept AWG #12 or smaller wire
Options:	Expanded Ranges
	High Performance Sensors
	Pulse Rate Outputs
Accessories:	A96 Lightning protectors
	A76-SD Mount
	A70-LPDD Digital Display
	A10 Mechanical Chart Recorder
	Data Chart - Electronic Chart Recorder
	A33 Data Logger / Controller

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