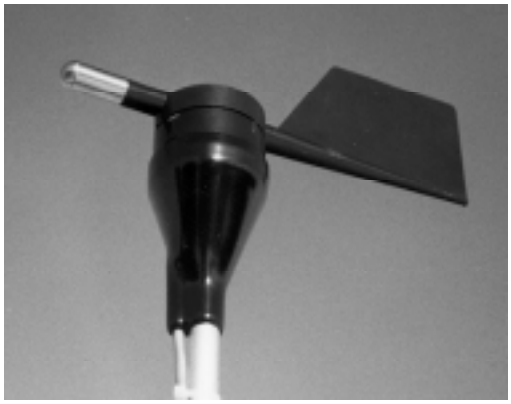
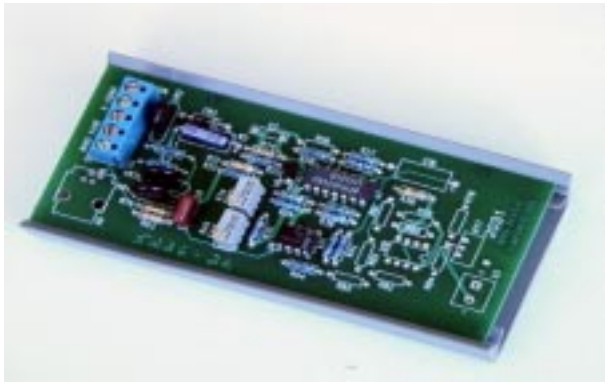
Model A70-D
Wind Vane with Transmitter

Document 1867D



A75-302 Wind Vane



Track Mounted Transmitter

The A70 Wind Azimuth Transmitter monitors the signal from the Model A75-302 precision Potentiometric Wind Vane. The wind vane is balanced to reduce errors should the vane mounting not be perfectly level. It is injection molded from black UV stabilized Lexan. It has proven rugged an reliable in field tests. The van produces a signal proportional to the azimuth of the wind. See A75-302 data sheet for detailed sensor specifications.

The transmitter provides constant excitation for the vane. It also scales the signal from the vane to produce the desired output signal. The vane has an 8 degree dead band centered on North. Ranges of 0 to 360 degrees and 0 to 540 degrees are available. The 360 degree range is the least expensive and most suitable for electronic data collection systems. The 540 degree range should be used when driving chart recorders with ink pens. The 540 degree range minimizes the transitions of the recorder pen from zero to full scale that might otherwise paint the entire chart when the wind direction is from the North. Combination speed and direction instruments are available. Sensor operating range is -40 / 60 degrees C. The system is provided with 60 feet of cable, clamps and an S mast for mounting the direction vane.

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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ISO 9001 Registered

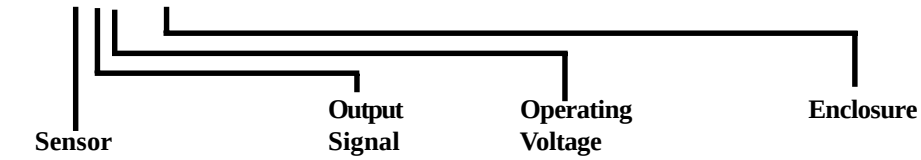
Comptus Inc® **342 Lyndeboro Rd., New Boston, NH USA**

Phone: 603 487-5512 Fax: 603 487-5513 E-mail: sales@comptus.com

Model A70-D

Model Designation

A70-WXY - Z



S	Wind Speed	V	0-1 V	0	Loop Powered	T	Track
D	Wind Direction 360°	I	0-1 mA	1	12 - 24 VDC	N12	NEMA 12
D54	Wind Direction 540°	L	4-20 mA	6	120 VAC, 50/60 Hz	N4XFG	NEMA 4X Fiberglass
R	Rainfall			7	230 VAC, 50/60 Hz	N4XSS	NEMA 4X SS
I	Solar Radiation						
P	Barometric Pressure						
T	Temperature						

Operating power for models with 4-20 mA outputs can be provided by the current loop or externally. Loop power must be a regulated DC source in the range of 12 - 24 VDC. Models with 4-20 mA outputs will be loop powered if no operating power specifier (X) is present or specified as "0".

Example model number: A70- D L 6 - N12

D	Wind Direction, 360 Degrees
L	4-20 mA Output Signal
6	120 VAC Operating Power
N12	NEMA 12 Enclosure

Specifications

Range:	0 - 360 degrees or 54 - 540 degree
Sensor:	A75-302
Accuracy:	± 4 degrees
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
Accessories:	A96 Lightning protectors
	A76-SD Mount
	A70-LPDD Digital Display
	Data Chart - Electronic Chart Recorder
	C47 Wind Azimuth Alarm

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