



Suitable for wind speed and direction measurement – general purpose wind measuring applications – corrosion resistant applications

Datasheet

SYN-710-3000 series with 4-20mA output Wind speed & direction sensors

The Synchrotac SYN-710-3000 Series is the latest in the successful range of SYN-710 wind instruments and offers an integrated loop powered 4 – 20mA output.

The sensors are designed for general-purpose wind measuring applications. They are constructed from corrosion resistant materials and incorporate precision sealed stainless steel bearings for reliability and low starting threshold.

The sensors can be individually mounted directly to a pipe mast with a ½ inch BSP male thread or as a pair on the optional cross arm or mounting sickle.

Anemometer model SYN-710-3900

The Synchrotac SYN-710-3900 wind vane uses a precision potentiometer to produce a 4 – 20mA output and it is also loop powered.

Vane length	335mm
Circle diameter	382mm
Body diameter	41.5mm
Overall height	252mm
Mass of vane	235g
Weight	675g
Mounting	½ inch BSP female thread
Body & vane material	Brass
Bearings	Two stainless steel roller balls, sealed with low viscosity lubricant
Mechanical travel	Mechanical - 360°
Electrical travel	Electrical - >340°
Signal output	4–20mA corresponding to 0°- 359°
Response time	200ms nom
Power Requirements	12VD - 30VDC
Connection	5 pin
Electrical load	<500 ohms for 24VDC loop power
Operating temperature	-20°C to +60°C

Anemometer model SYN-710-3500

The Synchrotac SYN-710-3500 wind speed sensor (anemometer) offers a 4-20mA output and is loop powered. The default span is 0 to 100km/hr but other spans may be ordered up to 150km/hr.

Cup diameter	45mm
Circle diameter	130mm
Body diameter	41.5mm
Body height	170mm
Mass of cup set	20g
Weight	565g
Mounting	½ inch BSP female thread
Body material	Brass
Cup set material	Fiberglass reinforced phenolic
Bearings	Two stainless steel roller balls, sealed with low viscosity lubricant
Transfer coefficient	0.0526 km/hr per rpm 0.9m of wind run per revolution
Wind speed	Over 50m/sec (180km/hr)
Transducer	DC generator
Starting threshold	<0.7m/sec
Signal output	4 –20mA = 0 – 100km/hr
Response time	200ms nom
Power requirements	12VD - 30VDC
Connection	3 pin (2 pin optional)
Electrical load	<500 ohms for 24VDC loop power
Operating temperature	-20°C to +60°C

Welcome to the world of Observator

Solutions beyond expectations. That's what sets Observator apart. We believe in taking the extra step. Retaining our competitive edge, through innovation and uncompromised support, are key to success. As an ISO 9001:2015 certified company, we apply the highest quality standards to our products and systems.

Since 1924 Observator has evolved to be a trend-setting developer and supplier in a wide variety of industries. From instruments for meteorological and hydrological solutions, air and climate technology, to high precision mechanical production, window wipers and sunscreens for shipping and inland applications.

Solutions beyond expectations

Originating from the Netherlands, Observator has grown into an internationally oriented company with a worldwide distribution network and offices in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

www.observator.com