AUTONNIC

A5130E
A5130N
A5130P

NMEA 2000 WIND SENSOR

FEATURES

- Robust contruction for long life
- Delrin/beryllium-copper speed bearings
- Delrin/anodised-aluminium vane bearings
- Sealed to IP68
- Magnetic sense of Direction
- Magnetic sense of Speed
- NMEA-2000
- Available in 3 different lengths
- Terminated

APPLICATIONS

- Marine

ABSOLUTE MAXIMUM RATINGS

PARAMETER	DESCRIPTION	NOTES	CONDI-TIONS	VALUE	UNIT
θ_{stor}	Storage Temp Range			-40 to +100	°C
θ_{op}	Operating Temp Range			-25 to +60	°C
V_{CC}	Supply Voltage			30	V
S_{MAX}	Wind Speed			80	Knots

PERFORMANCE

PARAMETER	DESCRIPTION	NOTES	CONDITIONS	MIN	TYP	MAX	UNIT
ERR_{WS}			10-40 knots		3	5	%
ERR_{DIR}			20knots		3	5	Degrees
t_{DSET}	Direction Settling Time		Minimum filtering			1.3	Second
t_{WSSET}	Speed Settling Time		Minimum filtering			2	Second

ELECTRICAL CHARACTERISTICS AT 20°C

PARAMETER	DESCRIPTION	NOTES	MIN	TYP	MAX	UNITS
V_{CC}	Supply Voltage		8	12 or 24	30	Vdc
I_{CC}	Current consumption			25		mA
	NMEA 2K loads power requirement			2		

ORDER INFORMATION

A5130E	**2K Wind extended**
A5130N	**2K Wind normal**
A5130P	**2K Wind power**

NMEA CONNECTIONS

- Terminated for end of backbone
- Represents 2 load units.
- 12V systems only

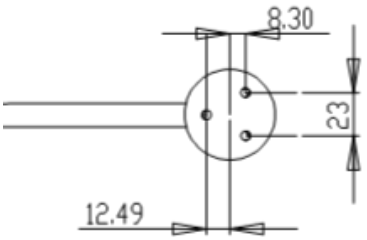
NMEA COMMANDS

Output PGN
Standard Windspeed and Direction (PGN:130306) at 10 per second

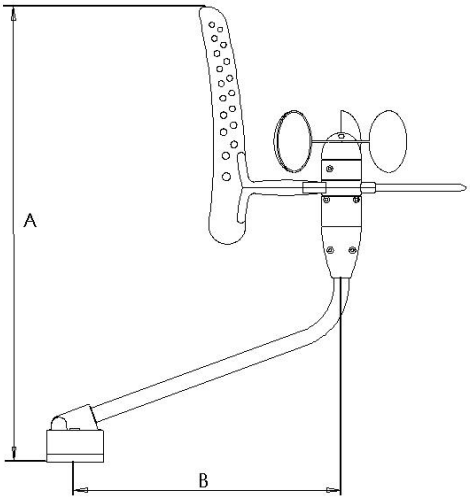
Input PGNs
Custom (PGN: 127257). A 6-byte block of which only the first is used as follows:

Set Wind Heading to Zero = 7

MECHANICAL



Base fixing centres.
Holes are 5mm dia



The A5130E, N and P are supplied with 1m cable terminated in a standard NMEA 2000 plug.

Dimensions mm

A5130X

X	A	B
E	540	300
N	390	225
P	330	60

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