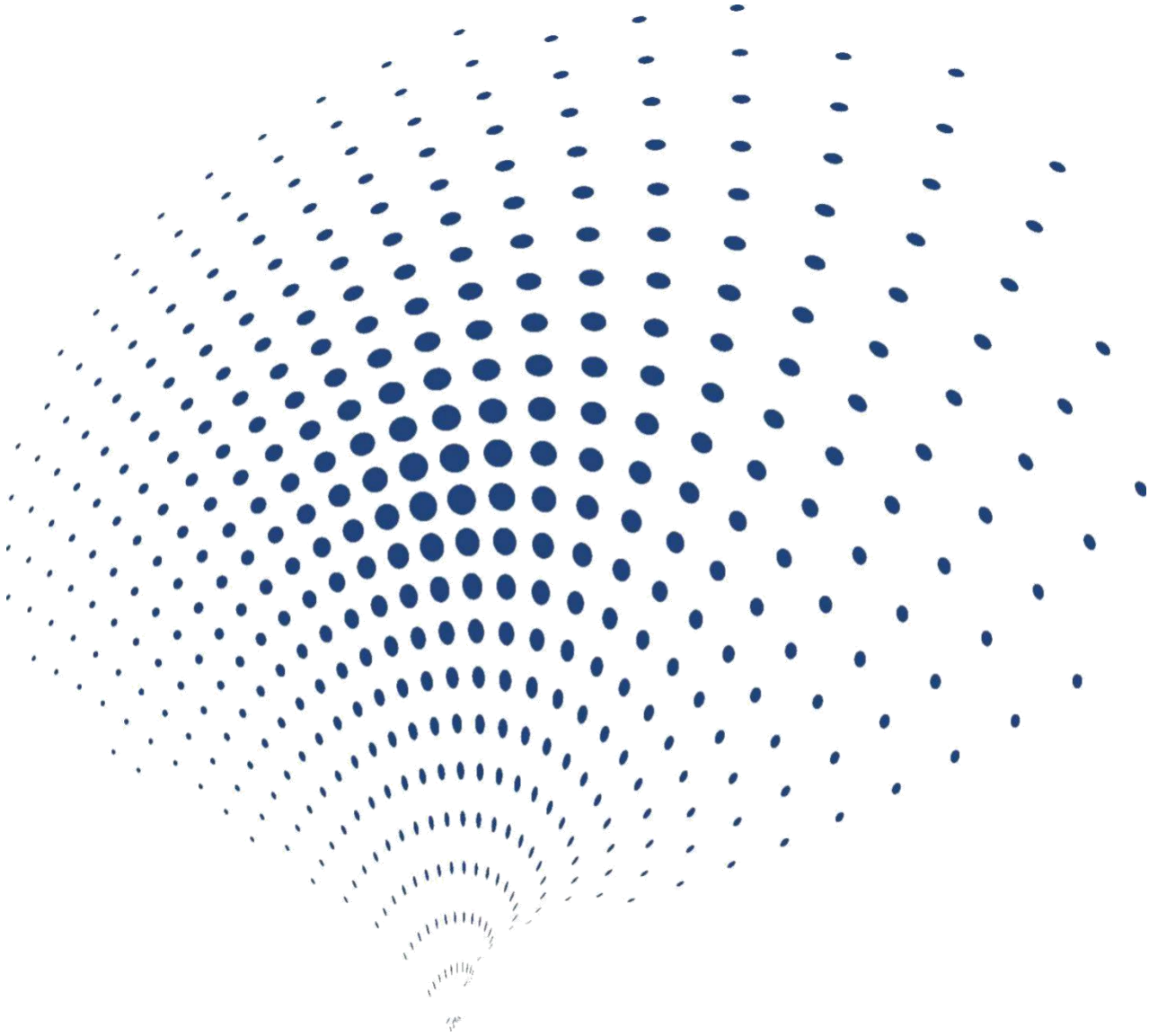
Vigor Technology



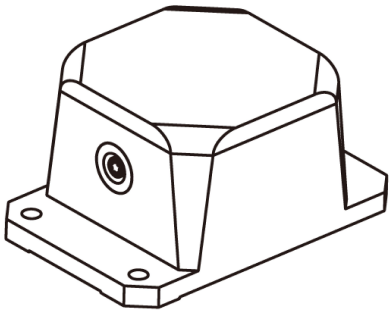
SSM25385-01 Inclinometer for wind turbine tower drum

Distributed by: Spare
Via Gen.le Enrico Maretti, 1/A-1 - 27057 Varzi - Pavia - Italy
tel. +39-0383-54.51.51 - fax: +39-0383-54.50.51
https://www.spare.it
e-mail: sales@spare.it

SSM25385-01Inclinometer for wind turbine tower drum

Features

- ✧ Long-term online monitoring
- ✧ RS485 Modbus output
- ✧ ±0.005° accuracy, 2″ resolution
- ✧ temperature coefficient ±0.0006° /℃
- ✧ Directly and horizontally installed in the middle and lower part of the turbine tower drum
- ✧ Built-in high precision MEMS chip
- ✧ High reliability, resistance to 20000g impact
- ✧ One time simple installation, life-long maintenance free



Application

Monitoring of wind turbine tower inclination and tower uneven settlement

Description

SSM25385-01 is a professional application product developed for the long-term on-line tilt monitoring of wind turbine tower. It has the characteristics of angular second stability, ± 0.0006 ° g ℃ temperature drift, following the EMC standard of wind power industry, high protection level, standard industrial interface and so on. It is widely used in offshore wind turbine and onshore wind turbine.

Performances

Mechanical	Protection	IP67
	Dimensions	100×64×48.5mm
	Shell Material	aluminium alloy
	Weight	＜400g（exclude cable）
Electrical	Power supply	9~36VDC
	Power consumption	80mA@24VDC
	Power supply rejection ratio	＞85dB
	Interface	RS485 Modbus
	cable	Pigtail cable （ standard with 2m cable ）
Performance	Measurement Fundamental	MEMS, capacitance
	Measurement	±5° ， 2 axis

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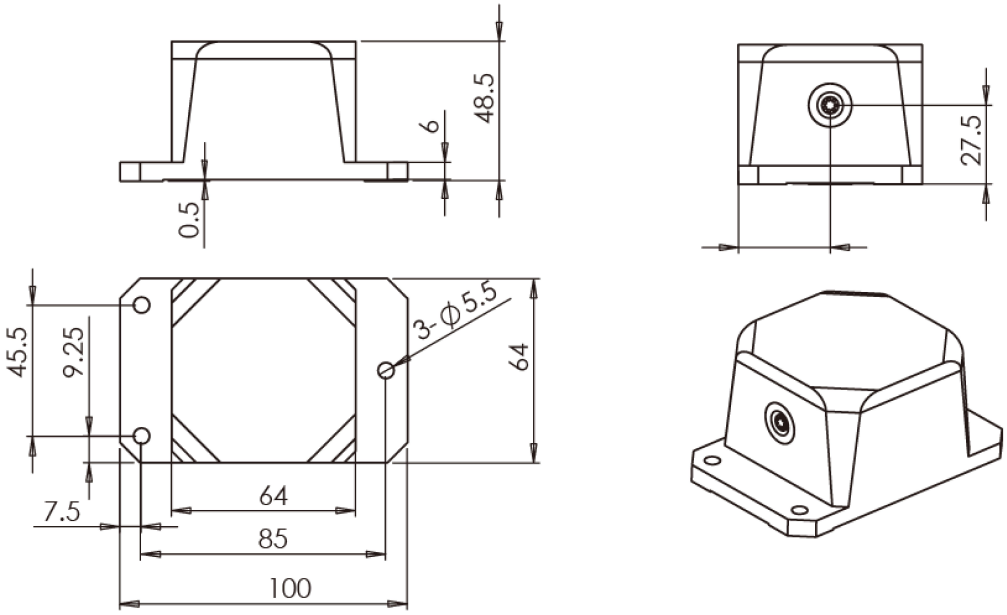
	Range	
	Resolution	2″
	Offset	±9″
	Accuracy	±0.005°
	Offset temperature drift coefficient	±0.0006° /℃@-20~60℃
	Sensitivity temperature drift coefficient	50ppm/℃@-20~60℃
	interconnection Error of the axis	≤±0.05%FS
	Response time	0.3s
	Data refresh rate	≤20Hz，adjustable
Environmental	Working temperature	-40~85℃
	Working humidity	0~100%RH
	Altitude	＜5000m
Reliability	Storage temperature	-40~85℃
	MTBF	10 years/ time
	Drop	3m Fall to the concrete floor（Exclude antenna and connector）
	Vibration	2grms，5~30Hz,Half sine
	EMC	Electrostatic discharge immunity Surge immunity Electromagnetic radiation immunity DC power supply test

Dimensions (mm)



PIN definition

Cable color	RS485
Red	Power +
Black	Power GND
Blue	A
Brown	B
Green	Signal GND

Ordering information

Product name	**Model**
Inclinometer for wind turbine tower drum	SSM25385-01 (standard with 2m cable)