



V1.2

Inclinometer monitor

RION SMI815/SMI825

Technical Manual



PRODUCTION IMPLEMENTATION STANDARD REFERENCE

- Quality management system certification: GB/T19001-2016 idt ISO19001:2015 standard (certificate no.:128101)
- Angle sensor design and production quality management system certification IATF16949:2016 (certificate no.: T178487)
- Intellectual property management system certification:GB/T29490-2013 standard (certificate no.:41922IP00281-06R0M)
- Weaponry Quality Management System Certification GJB9001C-2017 Standard (Registration number: 02622J31799R0M)
- shenzhen professional dedicated unique innovative enterprice
- Revision time: 2022-9-29
- Note: Product functions, parameters, appearance, etc. will be adjusted with the upgrade of the technology. Please contact the pre-sales business of the company for confirmation when purchasing.



▶ PRODUCT INTRODUCTION

The SMI825 inclination monitor independently developed and produced by Rion Technology can be matched with all our series of sensor products, including inclination sensor, accelerometer, compass, gyroscope, attitude and other products for data transmission and display. The monitor adopts industrial wide temperature digital screen, with PC membrane buttons, powerful functions, can set the zero point of the sensor, can accept customer function keys, panel color, third-party sensor access collection scheme customization. The monitor adopts DC9~36V external power supply.

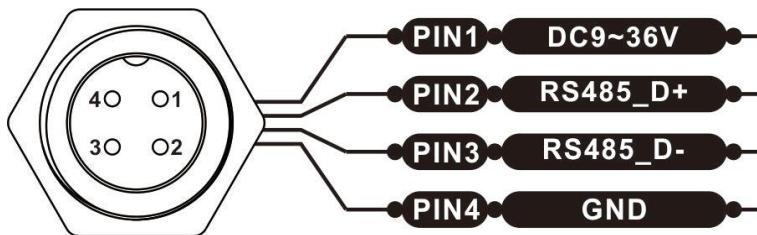
Monitor and sensor transmission can use RS485 and other ways, can be transmitted over long distances, monitor all-metal design, portable and easy to install, especially suitable for harsh industrial sites for real-time monitoring operations.

▶ KEY FEATURES

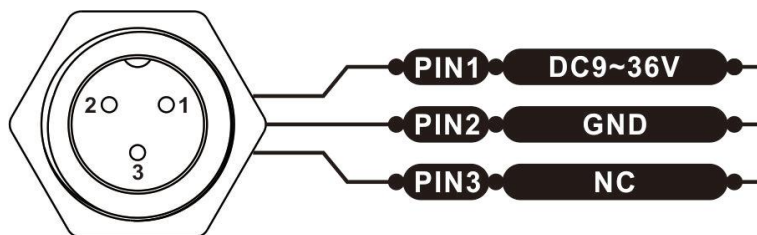
- ★ collecting inclinometer data
- ★ 2.8 inch color display
- ★ DC 9~36V wide voltage input
- ★ Aviation head plug and unplug
- ★ High vibration resistance > 200g
- ★ Transmission distance: RS485: 500m
- ★ Resolution: 0.01°/0.001°
- ★ Wide temperature operation -25~+80°C
- ★ IP54 protection class

▶ WIRING

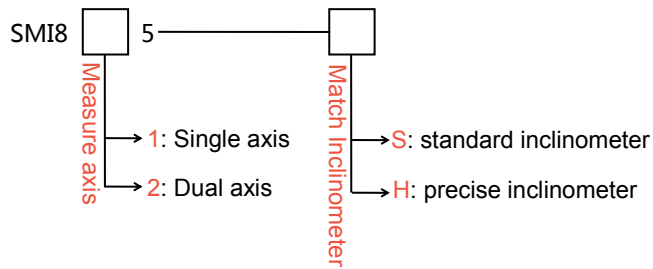
Inclinometer interface pin definition



External power supply interface pin definition

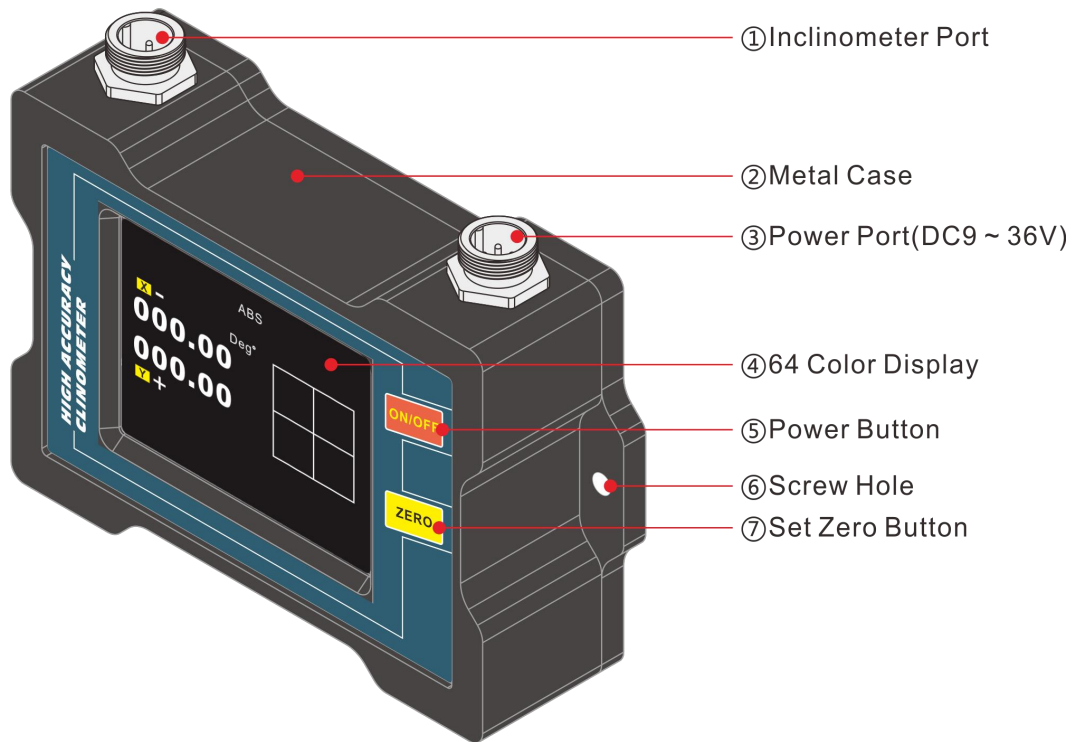


► **ORDERING**



E.g: SMI815-S: Single axis/standard inclinometer

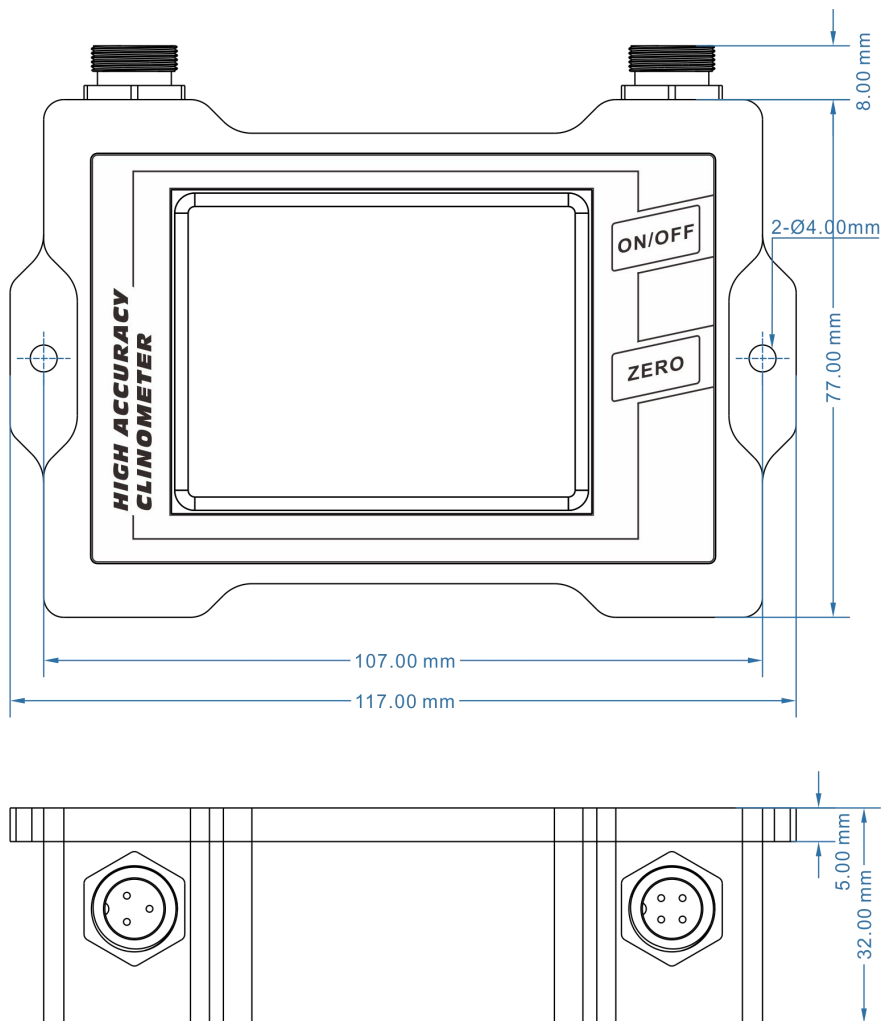
► **FUNCTION DESCRIPTION**



- (1) Inclinator interface: connect inclinometer, select the standard inclinometer resolution of 0.01, high-precision inclinometer resolution of 0.001.
- (2) Metal shell: anodized aluminum metal shell, hard and durable.
- (3) External power supply interface: DC9~36V power supply.
- (4) 64-color display: data display area.
- (5) Power on and off button: power on/off button.
- (6) Mounting hole: two M4 screws. Easy to install, convenient and fast.
- (7) Clear button: press the button, beep, switch the zero mode, the top of the screen shows ABS as absolute zero state, REL is relative zero state..

SMI815/SMI825 INCLINOMETER MONITOR

► SIZE



Case size: L117×W77×H32mm

Installation size: L107×H5mm

Mounting screws: 2pcs M4 screws

Notes:

1. it is powered by external power supply as DC 9~36V power supply;
2. The zero button must be pressed for 3 seconds to be effective.



Add: Block 1 & Block 6, COFCO(FUAN) Robotics Industrial Park , Da Yang Road No. 90,

Fuyong Distict, Shenzhen City, China

Tel : (86) 755-29657137 (86) 755-29761269

Fax: (86) 755-29123494

E-mail: sales@rion-tech.net

Web: www.rionsystem.com