

Compass

COMPASS SC1 & COMPASS SCD1 SIGNAL CONDITIONERS

Solartron's new "all in one" signal conditioner accepts any standard LVDT or Half bridge analog probes with 5 Pin DIN connectors. The single channel conditioner includes a DC output, I/O connection, and a USB port.



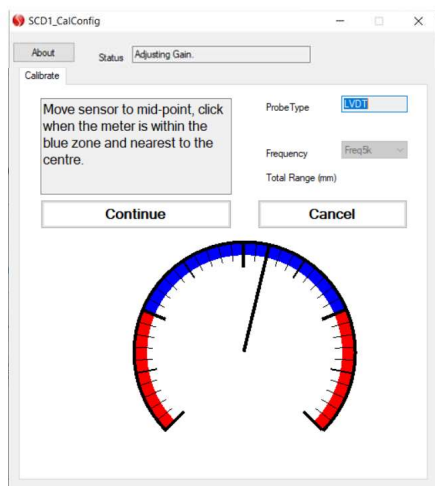
SC1



SCD1

KEY FEATURES

- Single input channel with or without display. Display has six digits resolution.
- Connects any LVDT or Half Bridge probe
- Accepts Marposs and Tesa Spec'd inputs
- Output via +/- 10 VDC, 0-10 VDC, Modbus, or via USB into Orbit GCS software
- +10 to - 10 V digital limit I/O option
- Easy setup to Windows PC via USB plug
- Status LEDs on casing are configurable by software
- DIN Rail Mount



Free Calibration software pack



Option to output to Orbit GCS



Output to PLC via DC or Modbus

REAL PRECISION. REAL SOLUTIONS.

www.solartronmetrology.com • sales.solartronmetrology@ametech.com

Compass

LAYOUT AND DIMENSIONS



Go/No Go LEDs



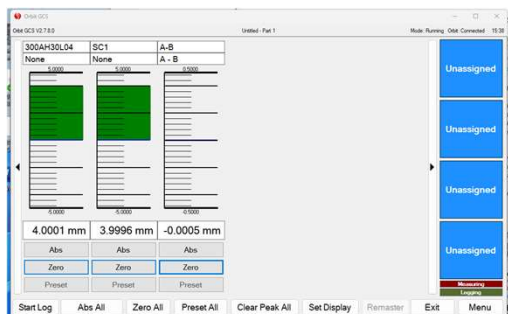
Buttons for setup

Go/No Go LEDs

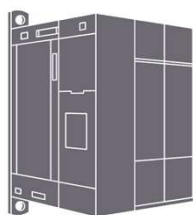


Both SC1 and SCD1 have same outer dimensions

INPUT AND OUTPUT OPTIONS



+/- 10 VDC
or 0-10 VDC



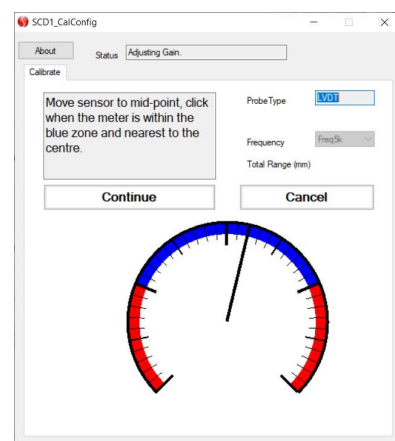
I/O Option



Plug any LVDT up to 300 mm.
Full Bridge, Half Bridge, Tesa
Spec, Marposs spec



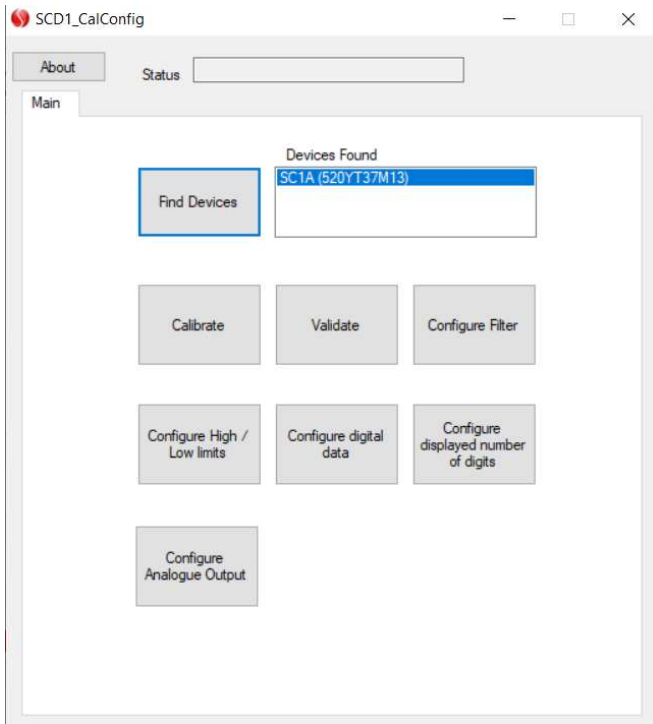
Power with 5 V from
USB port or 24 V via
power pack



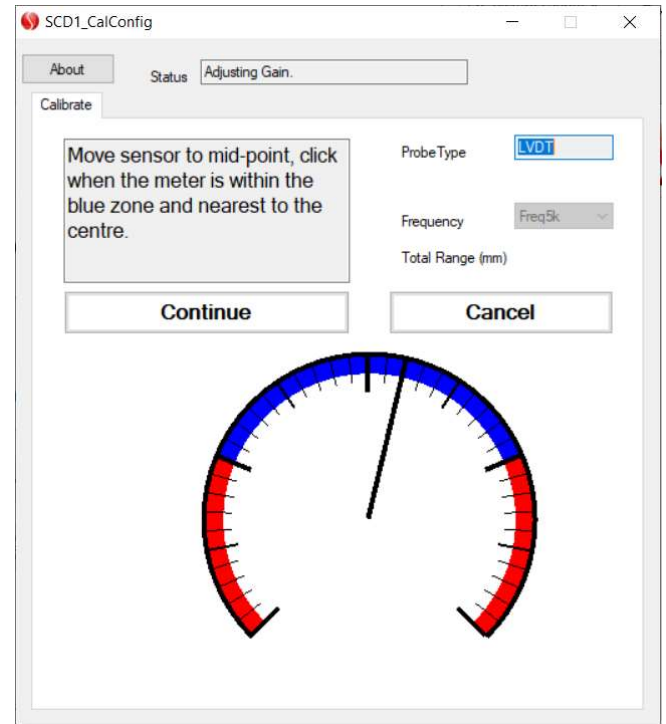
Set up and calibrate Compass units
with free software pack. Includes
calibration with sensitivity, analog
output, as well as Modbus settings

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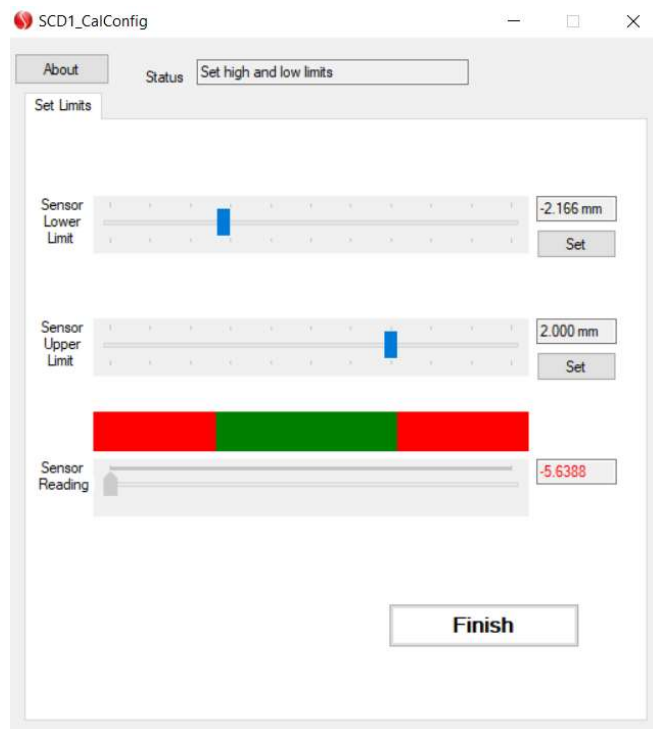
SOFTWARE SETUP



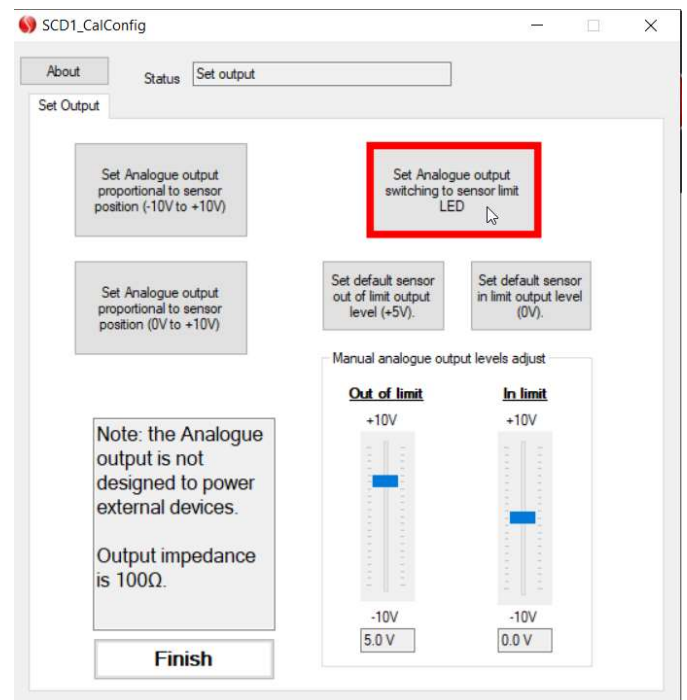
Setup pack is easily downloadable from Solartron website. Plug and Play



Step by step guide for calibrating each analog probe. Choose from 3 K to 20 K frequency



Set Upper and Lower Limits

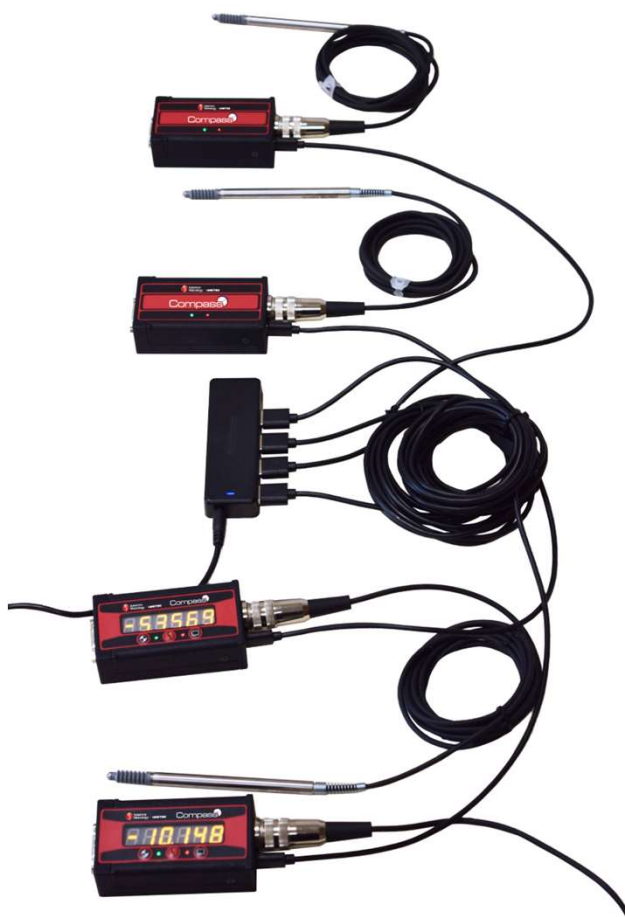


Set I/O outputs or Voltage output

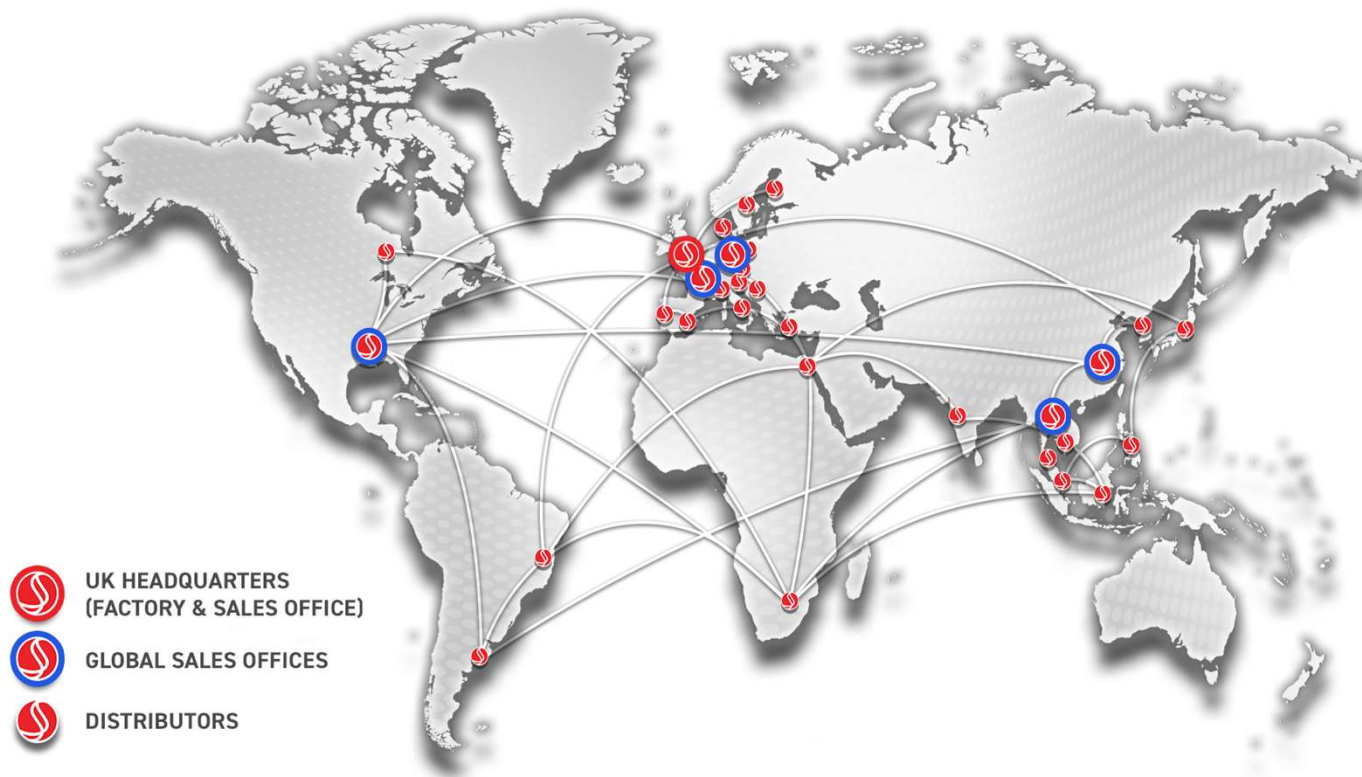
SPECIFICATIONS

PRODUCT	Units	SC1-A	SCD1-A (Display)
Number of Channels		1	1
Inputs		LVDT, Half Bridge, TESA spec, Marposs	LVDT, Half Bridge, TESA Spec, Marposs
Input Connection		5 Pin DIN	5 Pin DIN
Linearity	%FSO	0.02	0.02
Output Resolution (Digital Output via USB or Modbus)		18 bit	18 bit
Compass step response time	mSec	21	21
Bandwidth	Hz	31	31
Output Data Rate	ms	10	10
Thermal Drift (See Note 1)	μ/deg C	0.08	0.08
PHYSICAL PARAMETERS			
Weight	grams	~100	~100
Casing		PA Nylon 12	
ENVIRONMENTAL			
Electronics Operating Temperature	°C	0 to +50	
Storage Temperature	°C	-20 to +70	
Operating Temperature	°C	0 to +60	
Sealing		IP43	
ELECTRONICS INTERFACE			
Output Options		±10 VDC, Modbus over Serial, USB (into Orbit GCS Software), I/O	
Power		USB (5 V) or 24 VDC power pack with USB plug	
Note 1: Average Drift of the Amplifier was Tested from 10 °C to 50 °C with Multiple Probes			

Optional 24 V Power Pack



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