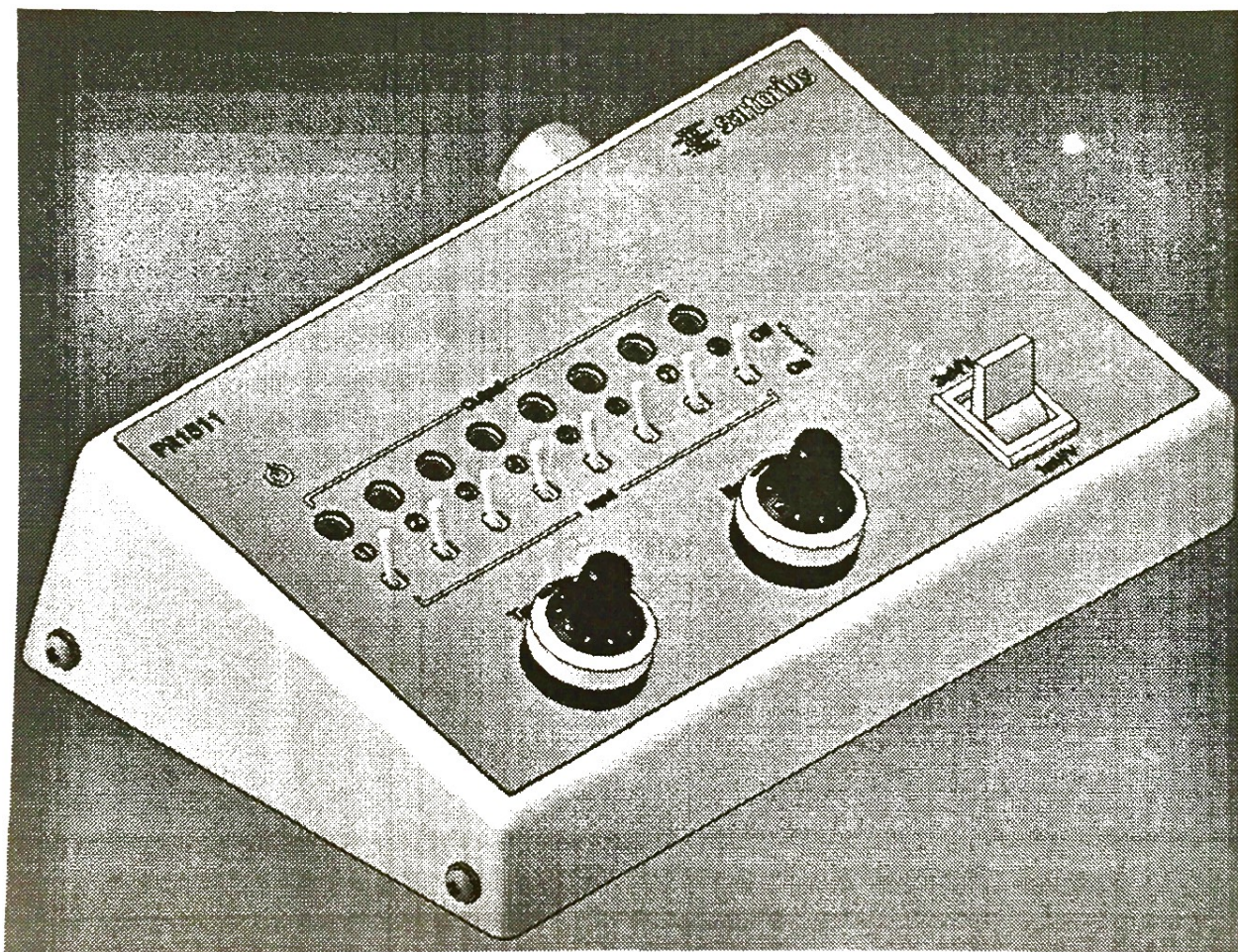




sartorius

Instrument Manual

PR1511 Simulator Box



9405 315 11001

Edition 2

5.3.2014

Sartorius Mechatronics T&H GmbH, Meiendorfer Straße 205, 22145 Hamburg, Germany
Tel +49.40.67960.303 Fax +49.40.67960.383 www.sartorius-intec.com

Distributore autorizzato : Geass S.r.l. - Torino - Tel.: +39.011.22.91.578 - web site : www.geass.com

1. Application

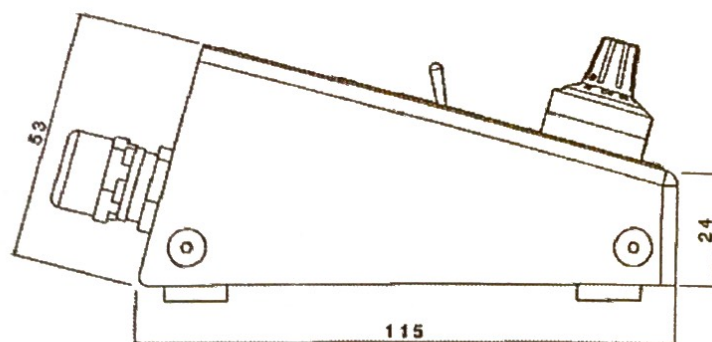
The PR1511 simulates 1 mV/V or 2 mV/V load cells with 4-wire and 6-wire technology. Additionally to control and indicate up to 8 digital inputs/outputs.

2. Technical Data

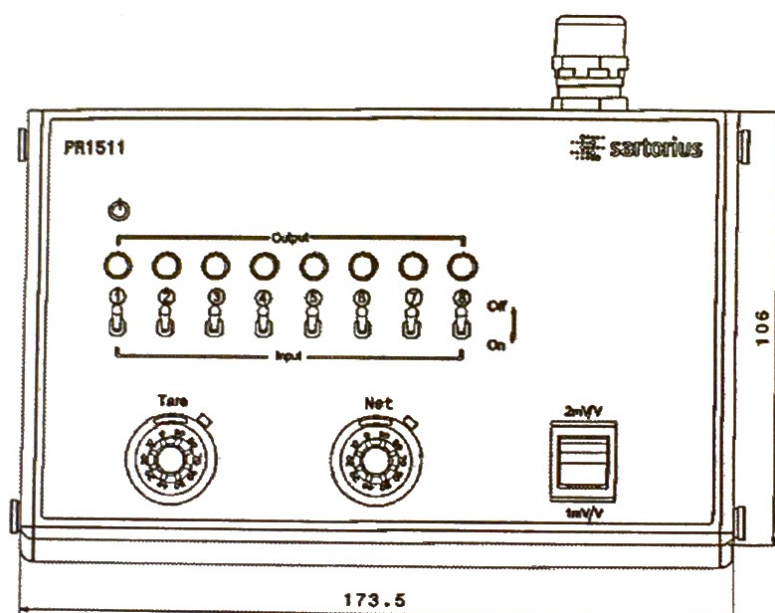
| | |
|------------------------------|---|
| Housing | Mild Steel with powder coating |
| Load cell signal output | 0-1 mV/V and 0-2 mV/V (with switch) |
| Digital Output | Indicate up to 8 digital outputs |
| Digital Input | Operate up to 8 digital inputs |
| Connection of digital I/O | Terminal sockets / Plug with Push-In tech |
| Cable length (Signal Output) | 2 m, with marked cable strands |
| Ac Power adapter | |
| Mounting style | Wall, Interchangeable plug |
| Input Voltage | 90VAC to 264VAC |
| Output Power Rating | 12 Watts |
| Output Voltage | 12 V |
| Output Current | 1A |
| Conformities | CE, ROHS |

3. Dimension of PR1511

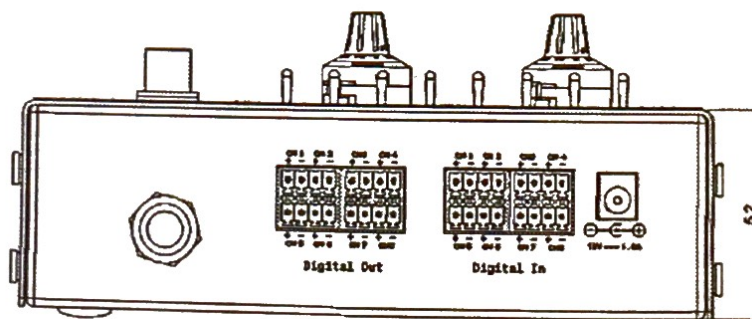
The dimension of the PR1511 is shown below in the fig 1.



SIDE VIEW



TOP VIEW



REAR VIEW

Fig 1

Note: Dimensions are in mm

4. Indication of the Digital Outputs of a Connected Device

The PR1511 has 8 digital output channels for control as shown in below fig 2 & fig 3.

Internal Circuit

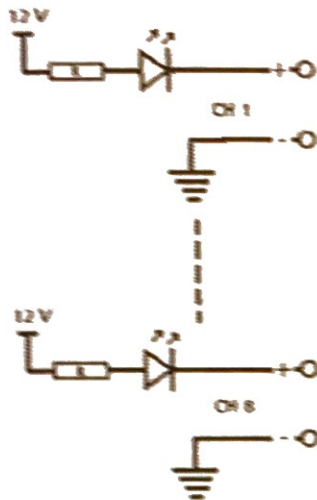


Fig 2

Outputs

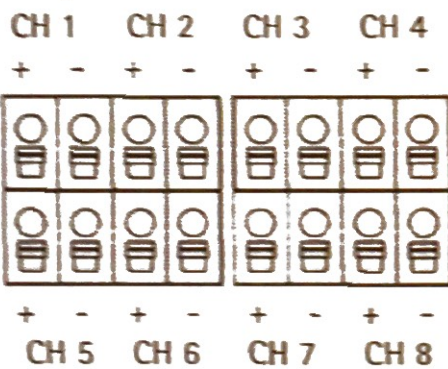
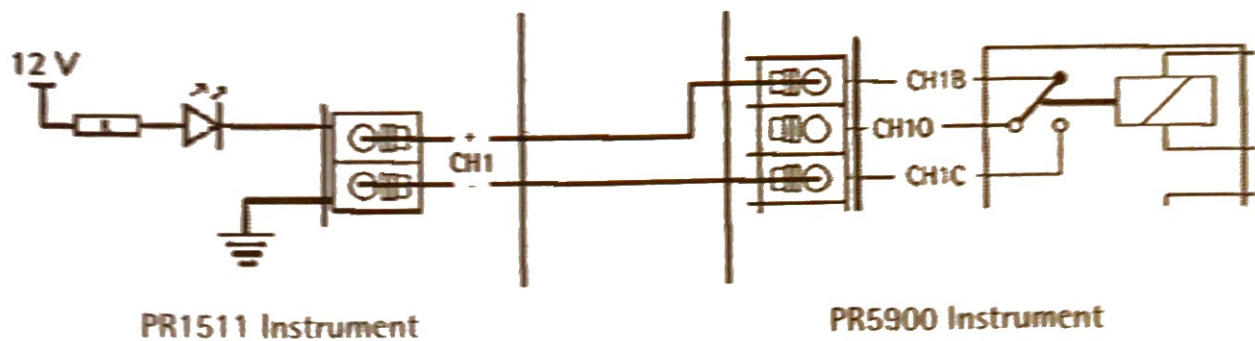


Fig 3

| | |
|----------------------|--|
| Numbers of outputs | 8 (CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8) |
| Output signal | LED ON: 0V LED OFF: 10V and above |
| Electrical isolation | No |
| Connection | Terminal sockets / Plug with Push-In tech |

Example:

Connection example for PR1511 with PR5900 digital outputs:



5. Simulation of the Digital Inputs of a Connected Device

The PR1511 has 8 digital input channels for control as shown in below fig 4 & fig 5.

Internal Circuit

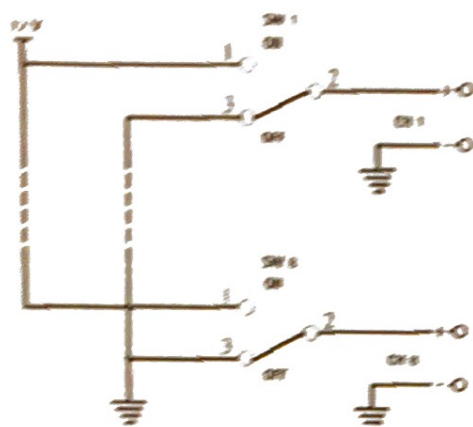


Fig 4

| | |
|----------------------|--|
| Numbers of Inputs | 8 (CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8) |
| Input signal | Switch ON : 12V Switch OFF: 0V |
| Electrical isolation | No |
| Connection | Terminal sockets / Plug with Push-In tech |

Inputs

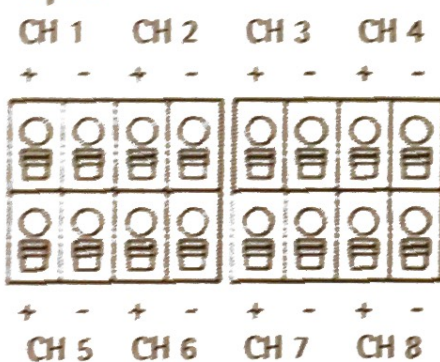
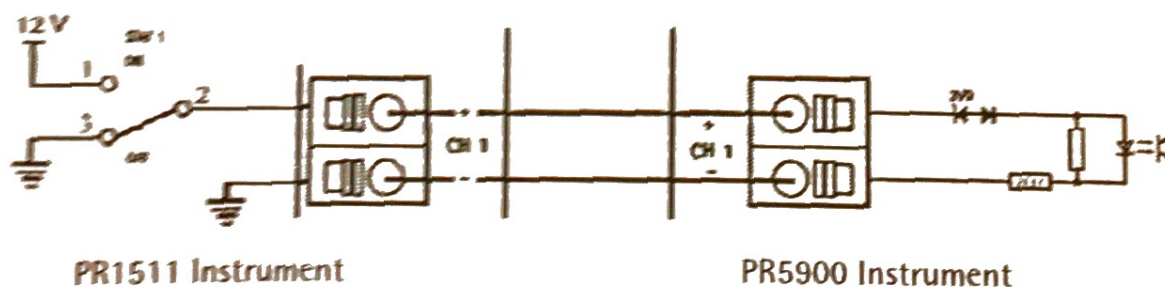


Fig 5

Example:

Connection example for PR1511 with PR5900 digital inputs:



PR1511 Instrument

PR5900 Instrument

Attention: Choose contact input "passive" for the connected device (e.g. "DE1" for PR5900)

6. Connecting PR1511 with 6-Wire Cable

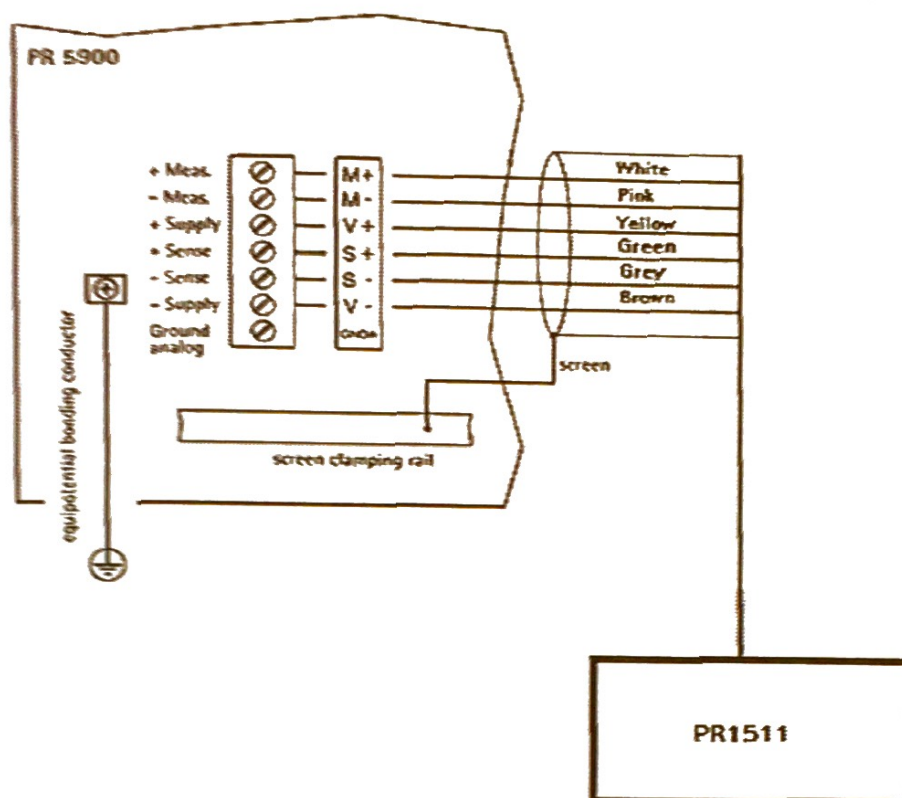


Fig 6

Note: Cable screens should be connected to the device screen clamping rail.

Terminal strip inscriptions

| | | |
|----|---------|--------|
| V+ | Supply+ | Yellow |
| S+ | Sense+ | Green |
| M+ | Meas.+ | White |
| M- | Meas.- | Pink |
| S- | Sense- | Grey |
| V- | Supply- | Brown |

7. Connecting PR1511 with 4-Wire Cable

If the connected device has a 4-wire connector (without S+,S-) please connect as follow:

V+ (Yellow) and S+ (Green) to V+ of the connected device

V- (Brown) and S- (Grey) to V- of the connected device