

Instrument Manual

PR1511 Simulator Box



Edition 3

07/11/2018

Please note:

Any information in this document is subject to change without notice and does not represent a commitment on the part of Minebea Intec unless legally prescribed. This product should be operated only by trained and qualified personnel.

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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.

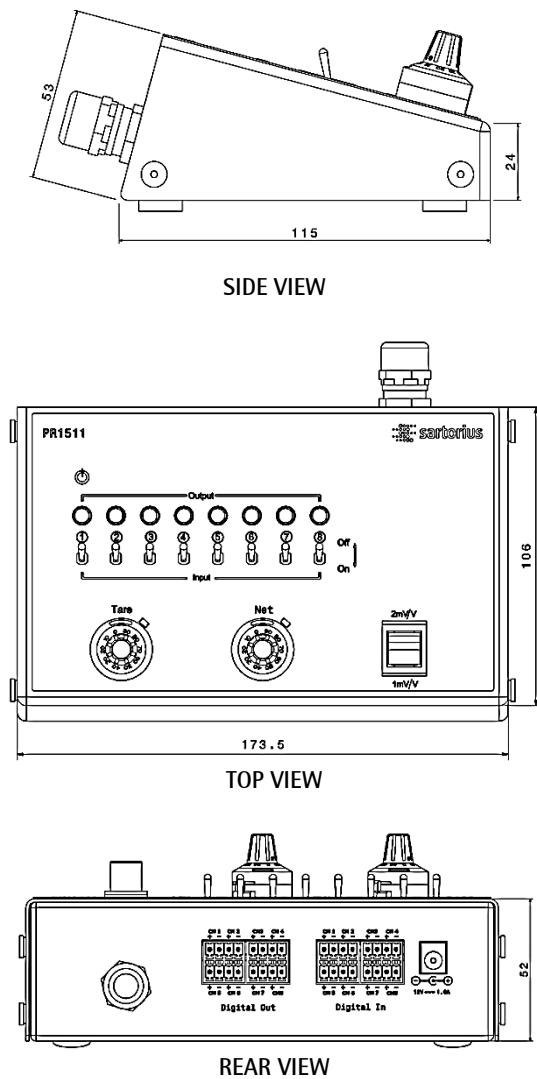


Fig 1

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

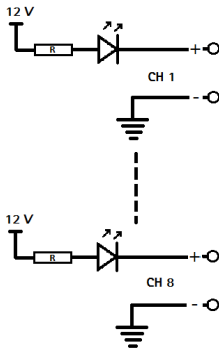


Fig 2

Outputs

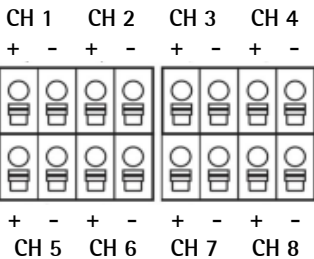
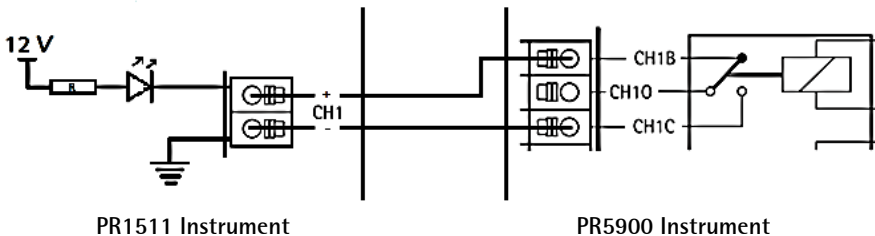


Fig 3

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

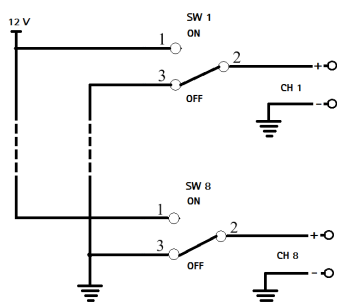


Fig 4

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

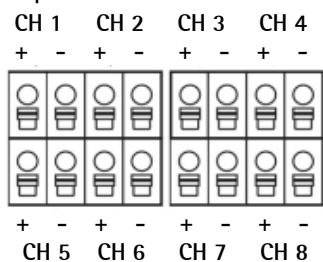
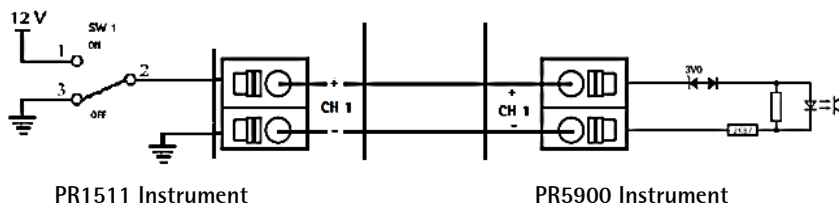


Fig 5

Example:

Connection example for PR1511 with PR5900 digital inputs:



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

6. Connecting PR1511 with 6-Wire Cable

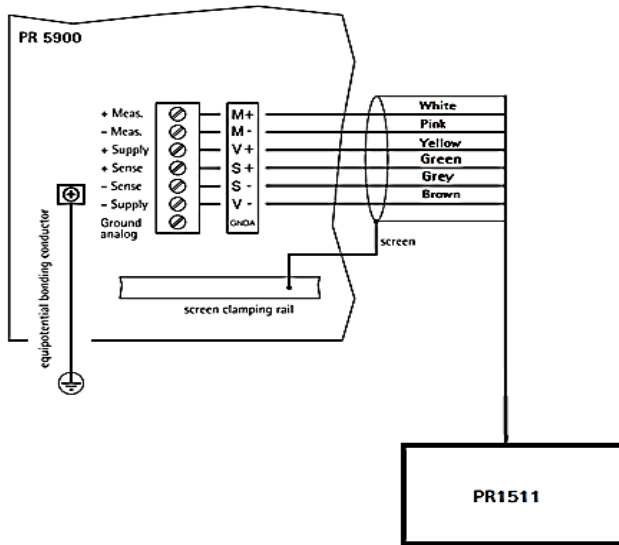


Fig 6

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

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