


Vermason		Product Information No: PIS 247		
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Continuous monitor for single wrist strap

Code H685 and H685E

Description

This unit receives a dual-lead wrist strap and monitors its connection to the operator and to ground. It does so on a continuous basis and will alarm if the resistance of the connection drifts outside the range specified in IEC 61340-5-1: 1998.

Physical and Electrical specification

Dimensions:	70 x 66 x 21 mm
Mass:	0.1 kg excluding power supply
Power Supply:	external, 12 volt DC, >150mA,
Low resistance limit:	0.75 - 0.85M Ω
High resistance limit:	33.3 – 36.6 M Ω
Test voltage:	10 volt maximum
Test current:	<1mA



Component	H685	H685E	Quantity
Monitor	H680	H680	1
Dual fabric wrist band	H610	H610	1
Dual cord for dual wrist band	H614	H614	1
Power supply:	H500	H500E	1
Self-tapping wood screws:	RJ672	RJ672	2
Spare M5 ring terminal:	RJ51M5	RJ51M5	1
Calibration certificate	Verm 109	Verm 109	1
Product Information Sheet	PIS 247	PIS 247	1

How to install

- This instrument is to be used as a grounding point for wrist straps and will provide a continuous test facility. Therefore, it should be mounted in a position that will ensure ease of use for the operator wearing the wrist strap.
- Wire the instrument ground cord to the nearest reliable ground point or to an ESD earth facility. Should the cord be too long, it can be shortened and the spare M5 ring terminal can be crimped on to the new end.
- Fix the instrument in an appropriate position on the bench using the two self-tapping screws.
- Connect the 12 volt power supply to power up the tester. The LEDs will light up in yellow.

How to use

- Make sure the LED lights are yellow.
- Adjust and wear the wrist band snugly around your wrist, connect it to the coil cord and connect the cord to the monitor as shown in the above photo.
- The left LED should change colour from yellow to green when connecting the coil cord thereby indicating that the monitor is functioning.
- The right LED indicates the status of the operator to ground connection:
 - If green, the connection of the operator to ground is as specified in IEC 61340-5
 - A red LED lights and a buzzer sounds if the resistance of the connection lies outside the range specified in the standard. Should this occur, it is an indication of a failure. **Do not proceed in the usual manner** but contact your supervisor or follow your company procedure.
- To return the monitor to standby mode, unplug the cord.

Calibration

The lower and upper limits of the resistance range are factory-set and calibrated traceable to UKAS standards prior to dispatch. The resistance limits should be checked at least once a year. Use a calibration unit such as our product code H306. We also offer a calibration service in the UK.

In case of non-conformance:

The instrument measures the resistance of the external circuit between ground and the terminal on the instrument face. The ground cord, the wrist strap cord, the wrist strap, the connection to the operator, and the operator's body resistance are all part of the external circuit. In case of a failure being indicated, determine whether the wrist strap alone is failing by ensuring that the other elements of the circuit are sound. This involves wearing the correct size of wrist strap and possibly wearing the wrist strap for a few minutes before testing (to allow body perspiration to improve the operator/wrist strap contact as it would in normal working use).

End

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