PI-RAC, RS-232 Hardware Interface.

Features of PI-RAC.

- **Operates From Single PI-M 5Vdc Supply.**
- **Meets All RS-232 and V.28 Specifications.**
- **No Other Hardware Required.**

CE   ISO9001 REGISTERED MANUFACTURER   TECHNOLOGY & QUALITY AWARD

Z495

The PI-RAC is a line driver / receiver, enabling communications between the PI-M and a computer terminal. This allows the PI-M to be tested and calibrated, and the PI-M to be programmed with a user defined curve. The PI-RAC has two DC/DC converters operating from the single 5V supply of the PI-M, generating ±9V for RS-232 transmission.
The PI-RAC has a 0.5m cable and socket for direct connection to the PI-M, and is housed in a standard, 25 pin, RS-232, D-connector.

Specifications.

RS-232	-Input	±30V Max.
	-Output	±9V Typical.
	-Input Resistance	7kʊ Typical.
	-Output Current	±10mA Max.
Cable	-TTL (From PI-M)	0.5m Max. Supplied With PI-RAC.
	-RS-232	15m Max.

Product Liability. This information describes our products. It does not constitute guaranteed properties and is not intended to affirm the suitability of a product for a particular application. Due to ongoing research and development, designs, specifications, and documentation are subject to change without notification. Regrettably, omissions and exceptions cannot be completely ruled out. No liability will be accepted for errors, omissions or amendments to this specification. Technical data are always specified by their average values and are based on Standard Calibration Units at 25C, unless otherwise specified. Each product is subject to the 'Conditions of Sale'.
Warning: These products are not designed for use in, and should not be used for patient connected applications. In any critical installation an independant fail-safe back-up system must always be implemented.

Ordering Information.

PI-RAC   PI-M to RS-232 interface, complete with cable for direct connection to PI-M.

D Connector Pin Assignments.

Pin 2 -   TD   Data from PC.
Pin 3 -   RD   Data from PI-M.
Pin 4 -   RTS   Handshake from PC.
Pin 5 -   CTS   Handshake to PC.
Pin 6 -   DSR   Handshake to PC.
Pin 7 -   GND   Signal Ground.
Pin 8 -   CD   Handshake to PC.
NOTES: Pins 4 & 5 and pins 6 & 8 shorted internally.

Computer Setup.

PI-M   **←TTL→**   **PI-RAC**   **←RS-232→**   **COMPUTER TERMINAL**
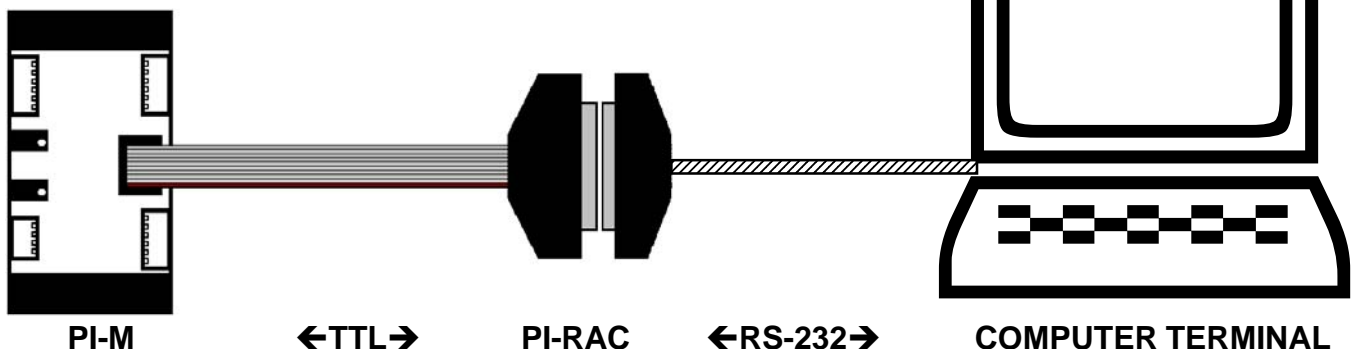
All power and signals must be de-energised before connecting any wiring, or altering any Jumpers or Dip Switches.

Quality Assurance Programme.

The modern technology and strict procedures of the ISO9001 Quality Assurance Programme applied during design, development, production and final inspection grant long term reliability of the instrument.

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