TECHNICAL DATA

- Telecom certifications   Argentina, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Japan, Korea, Liechtenstein, Luxembourg, Malaysia, Mexico, Netherlands, New Zeland, Norway, Philippines, Poland, Portugal, Russia, Singapore, Slovak Republic, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, United Kingdom, United States

- Data service
- Remote control by AT commands
- Input voltage   12 VDC
- Dimensions   165 x 110 x 35 mm (6.5 x 4.3 x 1.4")
- Weight   approx. 250 g (0.55 lb.)

HI 504902
RS485 Modem

MAINTENANCE & SAFETY TIPS

- Do not expose the unit to any extreme environment where temperature or humidity is high.

- Place the device in such a way that cables can not be damaged.

- THE HI50902 MODEM MUST BE CONNECTED TO A STANDARD ANALOG TELE- PHONE LINE. NEVER CONNECT IT TO ANY DIGITAL TELEPHONE SYSTEM, SUCH AS ISDN OR ADSL. THIS MAY CAUSE DAMAGE AND CAN BE DANGEROUS.

WARRANTY

This product is warranted for two years against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. This warranty is limited to repair or replacement free of charge. Damages due to accidents, misuse, tampering or lack of prescribed maintenance are not covered. If service is required, contact the dealer from whom you purchased the instrument. If under warranty, report the model number, date of purchase, serial number and the nature of the failure. If the repair is not covered by the warranty, you will be notified of the charges incurred. If the instrument is to be returned to Hanna Instruments, first obtain a Returned Goods Authorization number from the Customer Service department and then send it with shipping costs prepaid. When shipping any instrument, make sure it is properly packaged for complete protection.

IST504902   07/04

HANNA®
instruments

Dear Customer,

Thank you for choosing a Hanna Instruments product. This manual will provide you with the necessary information for correct operation. Please read it carefully before using the instrument. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com. This instrument is in compliance with the $C \in$ directives.

PRELIMINARY EXAMINATION

Remove the instrument from the packing material and examine it carefully to make sure that no damage has occurred during shipping. If there is any damage, notify your Dealer.

Note: Save all packing material until you are sure that the instrument functions correctly. All defective items must be returned in their original packaging together with the supplied accessories.

OPERATIONAL GUIDE

• Connect the RS485 interface cable to A and B terminals.

• Connect Tip and Ring signals of the telephone line (pins 3 and 4 of RJ11 jack, i.e. the 2 central wires of the telephone cable) to the "PHONE" terminal of the unit (see drawing); then plug the cable to the telephone line. The modem module is Tip/Ring polarity insensitive.

• Connect the supplied power adapter wires to the proper terminals (black & white wire to the negative pin "-"; black wire to the positive pin "+") and protect the device from electrostatic discharges by grounding the unit through the PE terminal.

• Power the unit through the 12 VDC adapter. The "ON" LED lights up.

• The unit is also provided with two LED indicators for signaling the operating status: a blinking "RD" green LED is related to data receiving, while the "TD" yellow LED flashes during data transmission.

Note: The modem should be installed only by qualified personnel.

FUNCTIONAL DESCRIPTION

HI 504902
RS485 Modem

Receive Data
Transmit Data
LED indicators
RD TD

ON
Power ON
LED indicator

Telephone Line
cablegland

RS485 and
Power supply
cables gland

Inside view

PHONE

PHONE

B
A
RS485
+
−
Power
input
Fuse 1A
PE