Service Unit UG-SER-RS for Ultrasonic Sensors with RS 232 Interface

General Description:

The portable Service Unit UG-SER-RS is used for setting the parameters of ultrasonic sensors with serial interfaces at the point of installation. Using the menu driven program UG-SER-RS the user can modify the sensor settings and read the measurement data of any sensor connected to it. The service program allows the unit to communicate with the following ultrasonic sensors equipped with RS 232 interface:

Sensors with E22 output stage: UJ 3000 +U1+E22+RS
UJ 6000- FP- E22+RS-P1
Sensors with 8B output stage : UJ 3000+U1+8B+RS
UJ 6000-FP-8B+RS-P1
Sensors with IU output stage : UJ 3000+U1+IU+RS
UJ 6000-FP-IU+RS-P1

In addition the Service Unit is a powerful pocket computer which may be used to perform complex calculations. Using both the internal memory and external Datapacks extensive data files may be produced. An internal clock and diary function allow personal appointments to be stored. At the preset time, the user is reminded of the appointment if requested with an audible signal. Furthermore the Service Unit may be programmed either in OPL (Organizer Programming Language) or in machine code (Microprocessor HD6303X).

Technical data:

Pocket computer:

Dimensions	142 x 78 x 29.3 mm
Weight	225 g
Display	Two line liquid crystal display each with 16 alpha-numerical symbols
Keyboard	36 keys
Memory	32 Kbyte ROM 32 Kbyte RAM

Datapack:

Storage medium:	EPROM
Storage capacity	16 Kbyte

Power supply:

Primary voltage	230 V
Primary current	30 mA
Secondary voltage	10 V
Secondary current	175 mA

The Service Unit package includes:

- Pocket computer (Psion Model XP)
- RS 232 Interface Communications Link (Psion) with connection cable
- Power supply 230 V AC
- 16K Datapack Program UG-SER-RS
- 9 V battery
- Handbook for pocket computer and interface

Connection and commissioning:

The Service Unit may either be powered by a 9 V battery or using the 230 V power supply. In order to set the sensor parameters the serial interface of the Service Unit must be connected to that of the sensor according to the wiring diagram. Before commissioning sensors with E22 and IU interfaces it should be ascertained that DIP switch S10 on the sensor is set to RS operation. This will ensure both that the serial interface is activated, and that switch outputs or IU current-voltage outputs are deactivated.

Program initiation:

The program is run by pressing the ON key twice.

Wiring diagram:

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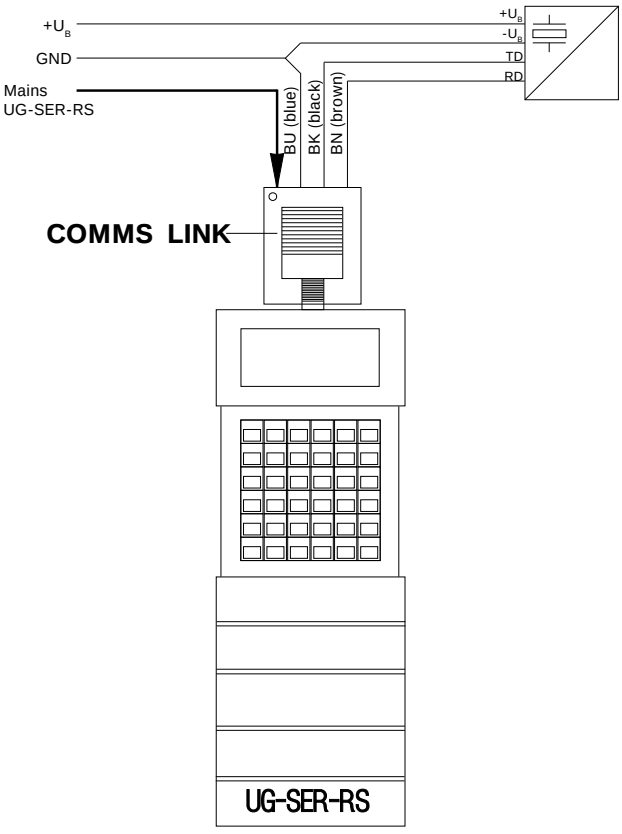
Ultrasonic sensor
with serial interface
Note!
Set DIP switch to
RS 232 operation.



Further reference:

- Instructions for Ultrasonic sensors with RS 232 interface
- Operating manual service unit UG-SER-RS
- Operating manual service program ULTRA
- Data sheet service program ULTRA

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Pepperl+Fuchs GmbH · 68301 Mannheim · Telephone (06 21) 7 76-0 · Fax (06 21) 7 76-10 00 · Internet http://www.pepperl-fuchs.com