

APAR – COMMERCIAL OFFICE

05-090 Raszyn, Gałczyńskiego 6
Tel. 22 853-48-56, 22 853-49-30, 22 101-27-31
E-mail: automatyka@apar.pl Internet:
www.apar.pl



USER MANUAL



PROGRAMMER

AR950



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The manufacturer reserves the right to make changes in the design and software of the device without decreasing its technical parameters.



1. SAFETY RULES

- **Before using the device, please carefully read this instruction manual,**
- ensure the correct operating conditions in accordance with the device specifications (humidity, temperature).

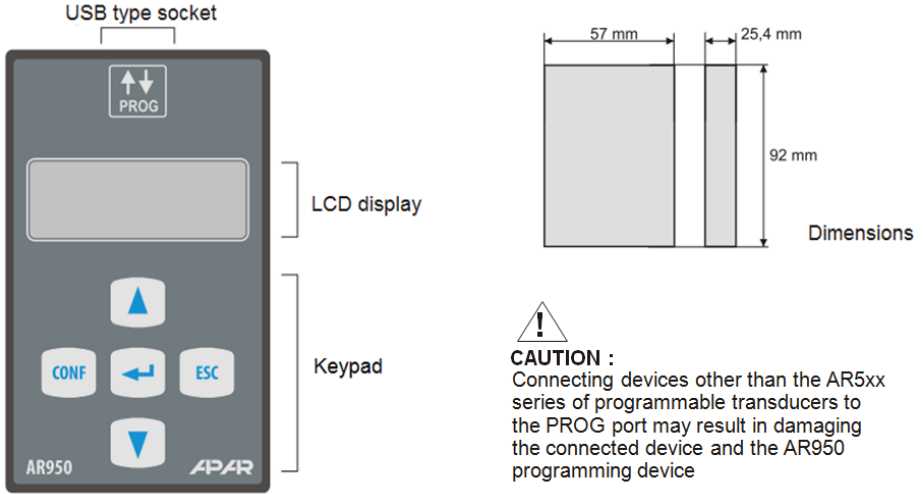
2. GENERAL CHARACTERISTICS OF THE PROGRAMMING DEVICE

- autonomous programming device with LCD display for configuring the AR5xx series of programmable logic transducers (e.g. AR592, AR593, AR594, AR580, AR581) and the AR921 signal switch
- displaying the current measurement value, previewing and editing parameters
- programming input type, processing ranges, alarms and other configuration data
- hand-held IP20 housing
- 2m USB connection cable included
- Power supply via USB cable from the programmable device

3. TECHNICAL DATA

Digital readout.....	7-segment LCD
-digits.....	4
-digit height	10 mm
-range of indications	-1999+9999
Measurement value refreshing frequency.....	4 Hz
Communication interface.....	digital TTL, USB socket, CRC checksum protocol
Connection cable.....	USB type, 2 m, disconnectable
Power supply.....	via USB cable from the programmed device
Working temperature range.....	0 ÷ 65 °C
Relative humidity range	0 ÷ 90% (w/ out condensation)
Housing	manual, ABS material
Dimensions.....	57 x 92 x 25.4 mm
Protection rating.....	IP50 (housing), IP20 (USB port)
Working position.....	any
Weight - without connecting cable.....	~75g
- with cable	~120g
Electromagnetic compatibility (EMC)	
- immunity: acc. to PN-EN 61000-6-2:2002(U)	
- emission: acc. to PN-EN 61000-6-4:2002(U)	

4. DIMENSIONS AND DESCRIPTION OF EXTERNAL COMPONENTS



5. BUTTON FUNCTIONS


Button	Function
	entering the parameter configuration mode (after holding pressed for more than 2 seconds, in the measured value display mode),
	- editing current parameter in the configuration mode (displaying the parameter value), - confirm the parameter value to be edited (marked as SET in the text),
	- increase the parameter value in configuration mode (marked as t in the text), - go to the next parameter,
	- reduce the parameter value in the configuration mode (marked as s in the text), - go to the previous parameter,
	- cancelling changes in the edited value (return to parameter display name), - exit from the parameter configuration mode (after holding pressed for more than 1 second)


6. PROGRAMMING CONFIGURATION PARAMETERS


- connect the supplied AR950 Programmer to the configured device (AR5xx series transducer) via the provided cable,
- programmer can be connected both before the power supply is switched on and during the operation of the device,
- enter into the parameter configuration programming mode by pressing the **CONF** button (for approximately 2 s) until the momentary message: **CONF** appears on the display, followed by the mnemonic name of the first parameter (**inP**),
- pressing the button will take you to the next parameter, while returning moves back to the previous parameter (**inP** ↔ **FILE** ↔ **DOB** ↔ ...), the list of configurable parameters is described in the operating manual of the configured device,
- in order to change or preview the value of the current parameter press the SET button (parameter edit), the UP or DOWN button changes the value of the current parameter,
- pressing **SET** again saves the edited value and returns to displaying the parameter name (e.g. **FILE**), in the parameter editing mode, briefly pressing the **ESC** button cancels changes and returns them to the parameter name display mode,

- Configuration parameter programming mode can be escaped by holding the **ESC** button pressed for a longer time (approx. 1s) or automatically after approx. 2 minutes,
- in normal mode, the measured value is displayed.

7. MESSAGES AND ERRORS

...upper segments of the display - exceeding the upper temperature sensor range or sensor damage,

... lower segments of the display - exceeding the lower temperature sensor range or sensor damage

 ... Entering the parameter configuration mode.

8. NOTES