

AR553 Temperature transmitter



- housing with side handles for easy assembly
- probe integrated with the enclosure, external probe with a wire, external in the enclosure with a wire or external on a stainless steel pipe
- current output 4-20 mA (2-wire, with power supply from the current loop), voltage output 0-10 V(3-wire), or an RS485 interface
- programmable processing ranges for temperature
- without galvanic separations outputs/power supply
- LCD display with a keypad (option) that enables configuration of parameters
- configuration of parameters with the keypad, through the RS485 or PRG port (programmer AR956 or AR955) and free ARsoft-CFG software that enables quick setting and copying of all configuration parameters
- protection rating IP65 provided by the enclosure which improves reliability of operation thanks to high resistance to penetration of water and dust and surface condensation of steam inside of the device
- possible power supply from the programmer AR956 during configuration parameters

How to order

AR553 / □ / □ / □ / □

Display		Method of mounting		Type of measuring probe	
Code	Code	Code	Code	Code	Code
LCD *	LCD	radial (standard)	-	integrated with housing (standard)	-
without display	-	back (channel)	T	external with cable 1,5m*	2
Output		Type of measuring probe		Code	
output 4÷20 mA	I	external probe in housing with cable 1,5m*	3	on stainless steel pipe, length 150 mm*	L150
output 0÷10 V	U	on stainless steel pipe, length 250 mm*	L250		
interface RS485	RS485				

For example:

Note: for a standard version, simply specify the type of output, e.g.: AR553/I

AR553 / I

AR553 without display, 4 ÷ 20 mA output, radially mounted probe integrated with housing

AR553 / LCD / U / L150 / T

AR553 with display, analog output 0 ÷ 10 V, probe on a stainless steel pipe with a length of 140 mm mounted on the back of the housing (channel assembly)

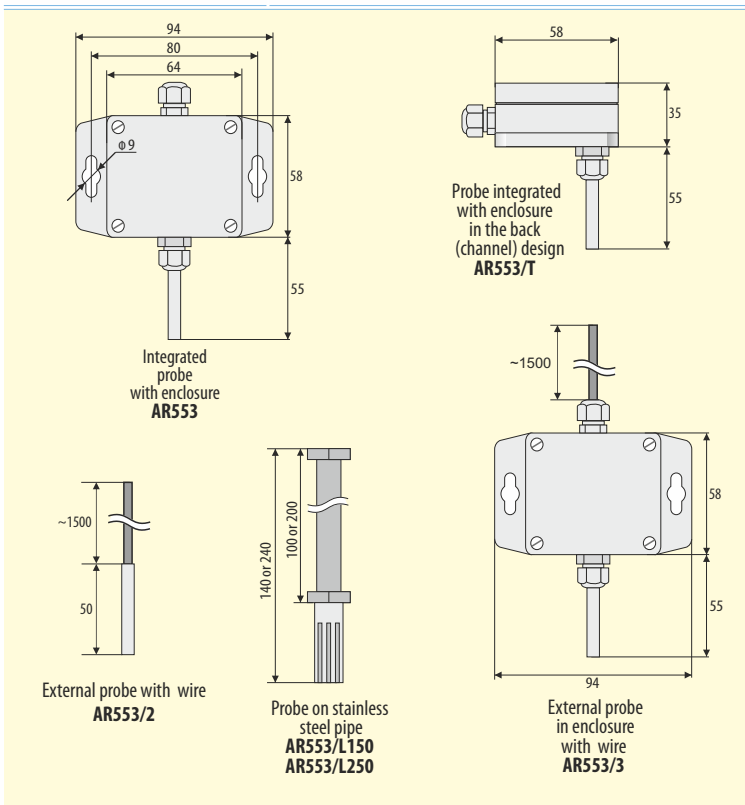
* option for an extra fee

TECHNICAL DATA

Measurement range	-30÷80 °C (-50÷120 °C for external probe with wire AR553/2)
Processing range	programmable in the input measuring range, factory -30÷60 °C
Measurement accuracy	±0,5 °C in range -10÷85 °C, ±2 °C remaining range
Measurement resolution	0,1 °C
Measurement period	1s
LCD display (option)	4 digits, 10 mm height
Output	current (I _H) 4÷20 mA (2-wire), load capacity R _L < (U _{sup} -12) / 22 mA
	voltage (U _H) 0÷10 V (3-wire), load capacity I _L < 4,5 mA (R _L > 2,5 kΩ)
digital (not separated)	RS485, MODBUS-RTU, SLAVE
Power supply	version 4÷20 mA 12÷36 Vdc (2-wire 2P) supply from the current loop
	version 0÷10 V 18÷30 Vdc, current consumption: ~7mA (with and without LCD)
	version RS485 9÷28 Vac or 9÷36 Vdc, cu. consumption: ~5mA (with and without LCD)
Rated operating	standard -30÷80 °C, <100% RH (non-condensing)
conditions	LCD display -20÷70 °C, <100% RH (non-condensing)

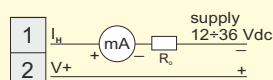
DIMENSIONS AND INSTALLATION DATA

Enclosure dimensions	58x94x35 mm
Material	polycarbonate

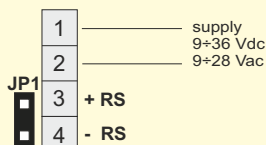


TERMINAL STRIPS AND ELECTRICAL CONNECTIONS

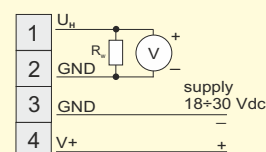
AR553/I



AR553/RS485



AR553/U



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