APLISENS®

AR553

TEMPERATURE TRANSMITTER

AR553
standard version

AR553/L150/T
Probe on stainless steel pipe, channel version

AR553/LCD
with LCD version

PROGRAMMING

COPY SUPPLY

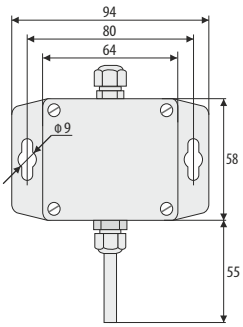
- housing with side handles for easy assembly
- probe integrated with the enclosure, external probe with a wire, external in the enclosure with a wire or external on a stainless steel pipe
- current output 4-20 mA (2-wire, with power supply from the current loop), voltage output 0-10 V(3-wire), or an 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

TECHNICAL DATA

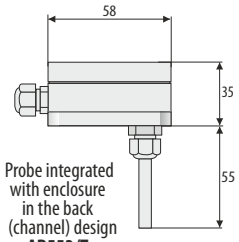
Measurement range		-30÷80 °C (-50÷120 °C for external probe with wire AR553/2)
Processing range		programmable in the input measuring range, factory **-30÷60 °C**
Measurement accuracy		±0,5 °C in range -10÷85 °C, ±2 °C remaining range
Measurement resolution		0,1 °C
Measurement period		1s
LCD display (option)		4 digits, 10 mm height
Output	current (I_H)	4÷20 mA (2-wire), load capacity $R_L \leq (U_{sup}-12) / 22$ mA
	voltage (U_H)	0÷10 V (3-wire), load capacity $I_L<4,5$ mA ($R_w \geq 2,5$ 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-condesing)
conditions	LCD dispaly	-20÷70 °C, <100% RH (non-condesing)

DIMENSIONS AND INSTALLATION DATA

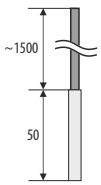
Enclosure dimensions	58x94x35 mm
Material	polycarbonate



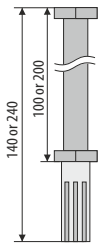
Integrated probe with enclosure
AR553



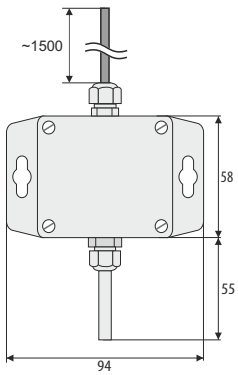
Probe integrated with enclosure in the back (channel) design
AR553/T



External probe with wire
AR553/2



Probe on stainless steel pipe
AR553/L150
AR553/L250



External probe in enclosure with wire
AR553/3

Ordering procedure

AR553 / □ / □ / □ / □

Display	Code
LCD *	**LCD**
without display	**-**

Output	Code
output 4÷20 mA	**I**
output 0÷10 V	**U**
interface RS485	**RS485**

Method of mounting	Code
radial (standard)	**-**
back (channel)	**T**

Type of measuring probe	Code
integrated with housing (standard)	**-**
external with cable 1,5m*	**2**
external probe in housing with cable1,5m*	**3**
on stainless steel pipe, length 150 mm*	**L150**
on stainless steel pipe, length 250 mm*	**L250**

* option for an extra fee

For example:

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

AR553 / I

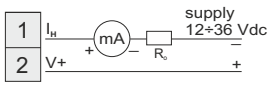
AR553 without display, 4 ÷ 20 mA output, radially mounted probe integrated with housing

AR553 / LCD / U / L150 / T

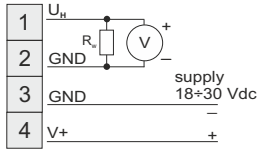
AR553 with display, analog output 0 ÷ 10 V, probe on a stainless steel pipe with a length of 140 mm mounted on the back of the housing (channel assembly)

TERMINAL STRIPS AND ELECTRICAL CONNECTIONS

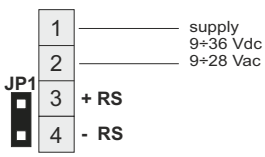
AR553/I



AR553/U



AR553/RS485



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