

AR715

The flow meter / pulse counter



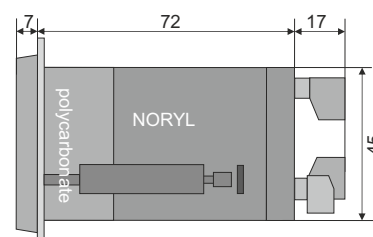
- **configurable measurement mode:**
 - measurement of flow and balance
 - pulse counter
 - incremental encoder (measurement of rotational speed, rate of turn, shifts)
 - dispenser (simultaneous dosing and counting)
 - frequency measurement
 - remote display via RS485, MODBUS-RTU, slave
- **maximum measurement frequency:**
 - 10kHz - for a flow, frequency, rotational speed
 - 30kHz - for the counter with PNP output
 - 100kHz - for the counter with NPN output
- **balance capacity:** 2×10^9 [units] with sign (-1999999999 ÷ 1999999999), 10 digits when the position of dot is equal to 0
- **universal pulse inputs (IN1, IN2) for flow meters, presence sensors, encoders with outputs:**
 - open collector of NPN type
 - open collector of PNP type
 - contact (reed, mechanical)
- **additional inputs:**
 - **S** - start/stop of counting (permission for counting)
 - **R** - reset of counter/balance
 - **B** - binary input of the programmable function
- **2 relay outputs or optionally SSR with programmable operational characteristics**
- **analogue output 0/4÷20mA or 0/2÷10V (alarm, retransmission)**
- **built-in power supply adapter to power the flowmeters, encoders and other sensors 24V/50mA**
- **four-color LED display with adjustable brightness**
- **access to configuration parameters protected by a user password or no password required**
- **programming via 4-button membrane keypad or digital interface**
- **programmable function button ("F") and binary input for changing the operational modes: keypad lock, unconditional manual mode for outputs, HOLD function for displaying flow measurements, dosing start/stop**
- **programmable options for communication, alarms, and other configuration parameters**
- **methods for configuring parameters:**
 - via membrane keyboard (IP65) located on the front panel of the device
 - via RS485 or PRG AR955/GP programmer and firmware: ARsoft-LOG (Windows 7/8/10)
- **software and programmer allow you to view the measured value and quickly configure single or few sets of parameters previously saved in the computer for re-use, e.g. in other devices of the same type (duplicate configuration)**
- **high accuracy, long-term stability and immunity to interference in industrial environment**
- **panel housing 96x48 mm, IP65 front, IP20 of the connections side**

TECHNICAL DATA

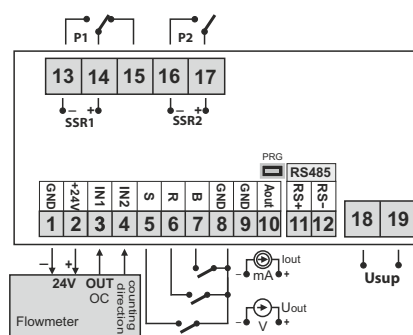
Input	pulse NPN, PNP, contact (reed switch, mechanical)	
Accuracy of freq. measurement	≤0.02 % ±1 digit (in whole of temperature range)	
Accuracy of flow measurement	consistent with the accuracy of the flow transmitter used	
Input frequency	max. 10kHz (for the meter PNP - 30kHz, for meter the NPN - 100kHz)	
7-segment LED display	5 digits, height 14 mm, programmable color and brightness	
Bi-state outputs	relay	SPDT, SPST-NO, 8A / 250 Vac (for resistance loads), standard
	SSR (option)	transistor type NPN OC, 11 V, internal resistance 440 Ω
Analogue output (1 current or voltage)	current	0/4÷20 mA , load $R_L \leq 350 \Omega$, no galvanic separation
	voltage (option)	0/2÷10 V, load $I_L \leq 3,7 \text{ mA}$, no galvanic separation
	output error	<0,1 % of the output range, maximum resolution 16 bit
Power Supply	230 Vac (85÷260 Vac) / 3 VA	
	24 Vac/dc (18÷72 Vdc/3 W, 15÷50 Vac/3 VA)	
Communication interface (RS485 i PRG, do not use at the same time)	RS485, MODBUS-RTU protocol, slave, galvanically separated, option	
	PRG programming link (no separation), for AR955, AR956, standard	
Rated operating conditions	0÷50 °C, <90 %RH (non-condensing), air and neutral gases	

INSTALLATION DATA

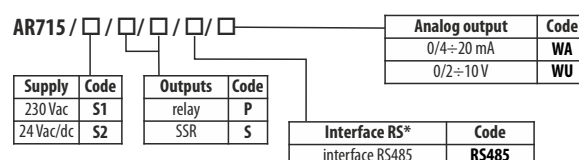
Enclosure dimensions	96x48x79 mm
Panel window	92x46 mm
Material	polycarbonate, NORYL 94V-0



TERMINAL



Ordering procedure



For example: AR715 / S1 / P / P / WA

AR715, supply 230 Vac, 2 relay outputs, current output

*option for an extra fee