

COMING
SOON



ULT20 - ULTRASONIC LEVEL TRANSDUCER

- Level measurement up to 8 m with automatic temperature compensation.
- Calculation of filling in the tank or flow in open channels.
- Standard galvanic separated analog output 0/4...20 mA.
- Digital interface RS-485 with Modbus RTU protocol.
- 2 alarm relays.
- Internal data and setup memory.
- Two 32-points individual characteristic (recalculate functions).



EXAMPLE OF APPLICATION

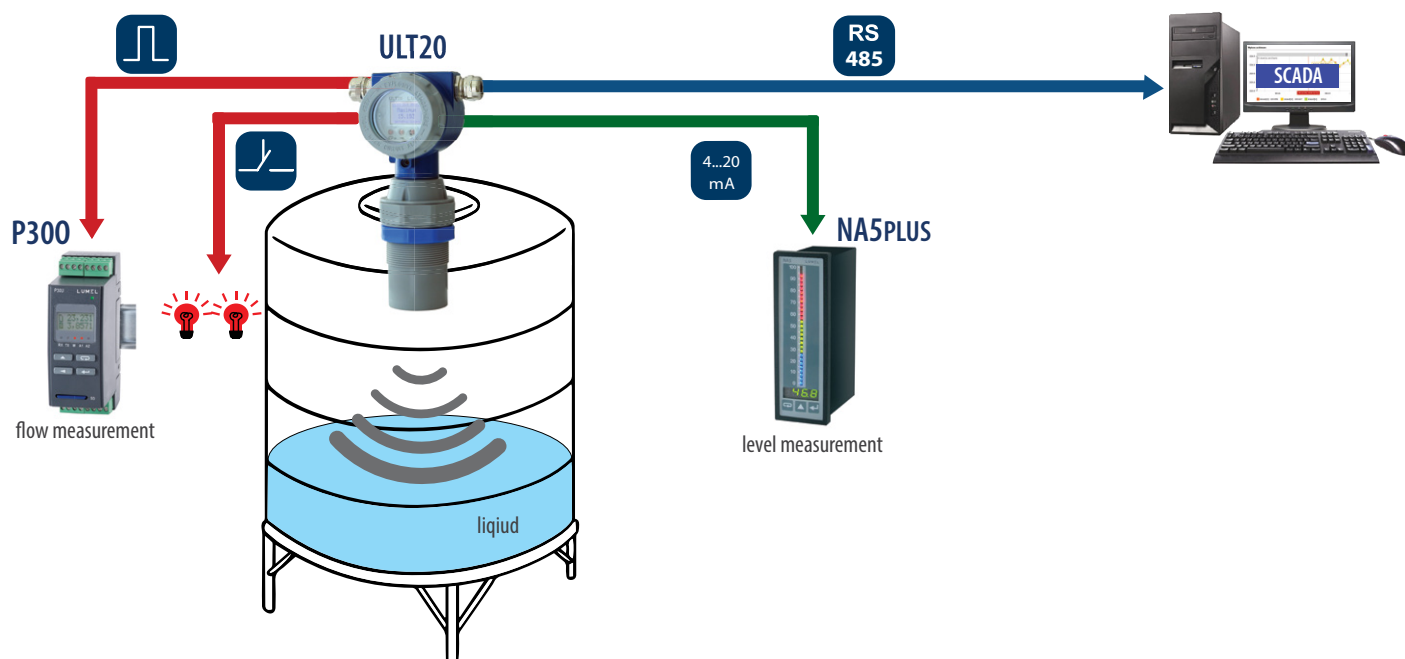


Fig.1. Level measurement with visualisation and recording.

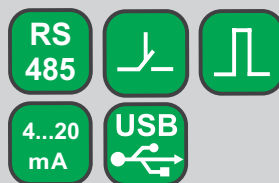
FEATURES



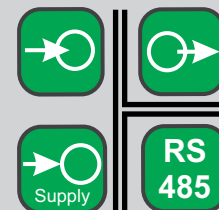
INPUT



OUTPUTS



GALVANIC ISOLATION



TECHNICAL DATA

MEASUREMENT

Range of distance measurement	0.5...8 m
Dead zone	0.5 m
Measurement resolution	0.001 m
Measurement basic error	±1 % of the range

OUTPUTS

Output type	Output signal	Maximum value at the output	Basic error	Error resulting from ambient temperature changes
analog	0/4...20 mA	24 mA	±0.2 % of the range	50 % of the basic error / 10K
Output type	Properties			
relay	2 NO outputs, maximum overload 100 mA / 300 V a.c./d.c.			
pulse	NPN transistor, U _{max} = 50 V; I _{max} = 50 mA, R _s = 100 Ω			

DIGITAL INTERFACES

Interface type	Properties
RS-485	Modbus RTU: 8N2, 8E1, 8O1, 8N1; baud rate 9600...115200 bit/s
USB	USB Device, v.2.0

RATED OPERATING CONDITIONS

Supply voltage	12...24...40 V d.c.
Power consumption	< 4W
Operating temperature	-20...23...55 °C (do not expose the meter to direct sunlight)
Storage temperature	-25...70 °C
Humidity	< 95% (water vapor condensation is not permissible)
Operating position	any

SAFETY AND COMPABILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Isolation between circuits	basic	acc. to EN 61010-1
Pollution level	2	acc. to EN 61010-1
Installation category	III	acc. to EN 61010-1
Maximal phase-to-earth voltage	50 V (all circuits apart from alarm circuits), 300 V for alarm circuits	acc. to EN 61010-1
Altitude a.s.l.	< 2000 m	

EXTERNAL FEATURES

Protection grade	IP65 acc. to EN 60529
Weight	1.4 kg
External dimensions	acc. to fig.2

EXTERNAL DIMENSIONS

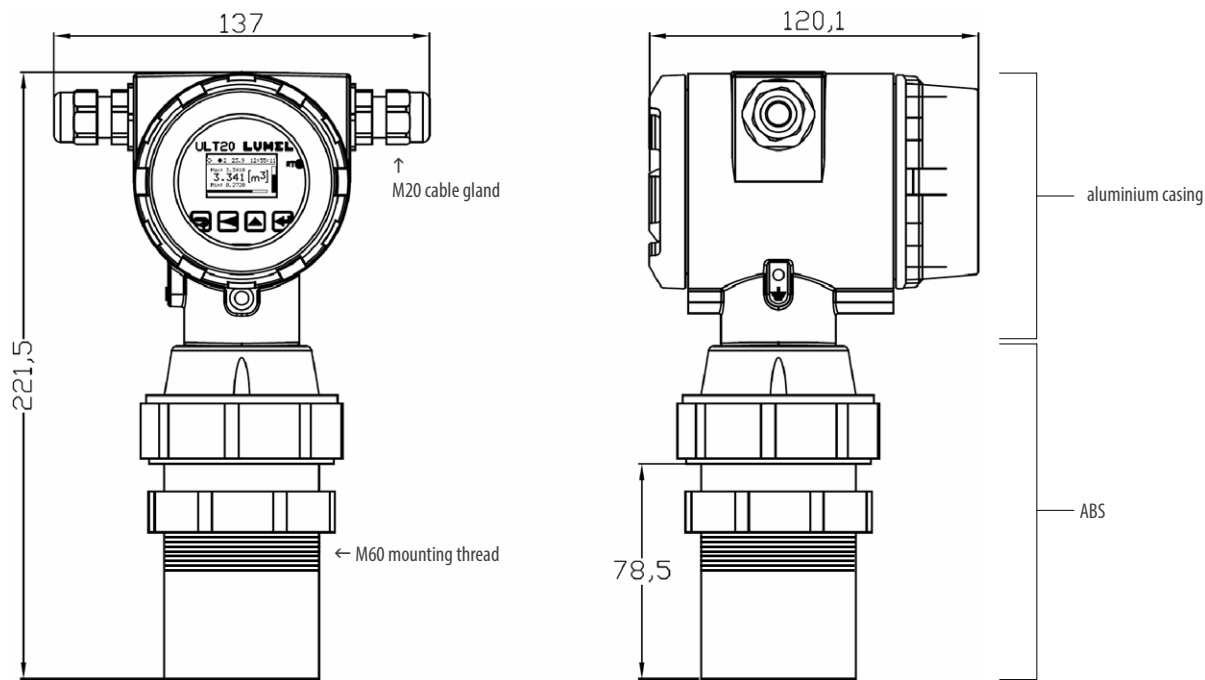
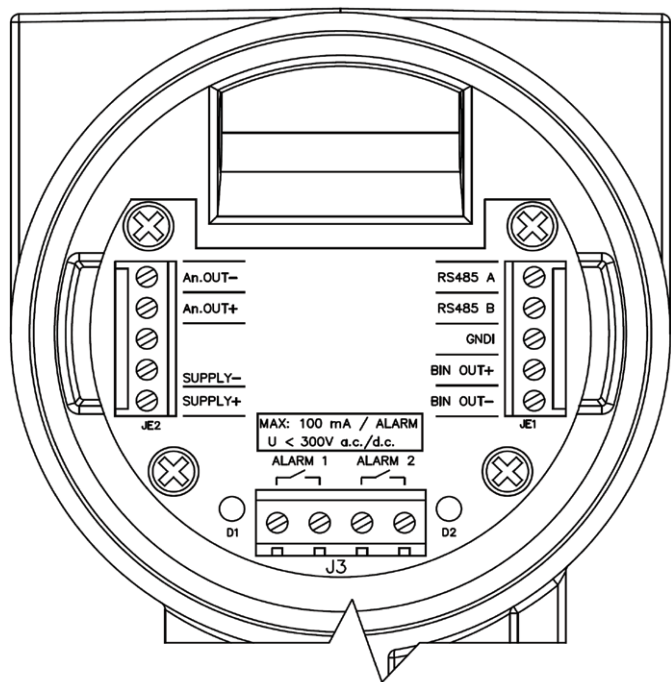


Fig.2. External dimensions of ULT20.

CONNECTION DIAGRAMS



Signal	Description
An.Out+, An.Out	Analog output: 0/4..20 mA.
SUPPLY+, SUPPLY-	Supply 12..40 V d.c.
RS485_A, RS485_B, GNDI	Interface RS485
BIN OUT+, BIN OUT-	Binary pulse output
ALARM 1	Relay output no. 1
ALARM 2	Relay output no. 2

ORDERING CODE

ULT20 -	XX	X	X
Version:			
standard	00		
custom-made*	XX		
Language:			
Polish		P	
English		E	
other*		X	
Acceptance tests:			
without additional quality requirements			0
with an extra quality inspection certificate			1
acc.to customer's request*			X

* only after agreeing with the manufacturer

Order example:

The code: **ULT20- 00 E 0** means:

ULT20- ultrasonic level meter ULT20

00 - standard version

E - user's manual in English

0 - without additional quality requirements.

SEE ALSO:



P300 - transducer of pulses, frequency, turns, operation time with data record and Ethernet



NA5, NA6 - programmable meters with multicolour bargraph indicators with RS-485 interface, analog and relays outputs



KD7 - screen recorder with touch panel - 3...12 channels - ETHERNET, RS-485 and RS-232 interfaces



RE92 - dual loop controller



N43 - rail mounted 3-phase power network meter



Current transformers from 5 A up to 6 kA



Free software **eCON**

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