KTU5

Ultrasonic level transmitter

Range 0,25-6 / 0,4-10m
IP67 protection
Suitable for liquids and granules
MODBUS RTU comm. protocol
Power supply 12Vdc; 20÷30Vdc; 24,115,230Vac
Output: 4 ÷ 20 mA + 2 adjustable relays

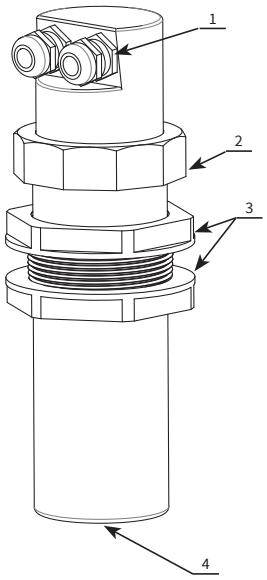
Compact ultrasonic instrument for general applications in liquids and bulk solids. Range from 0,25 to 5 m or 0,4 to 8 m.
KTU5 has 3 modes of calibration:
by means of on-board buttons;
by means of VL620|621 module, “REMOTE DISPLAY”;
by means of PC with s/w 010F105A MODBUS RTU.
This instrument is ideal for applications which require a compact transmitter without local display. There is a wide choice of supply voltage, 24 Vdc, 24 Vac, 115 Vac or 230 Vac. Two configurable relays allow alarm thresholds and pumps control. A complete self-diagnosis makes it suitable for remote unattended measurements. Another important feature is the body, because it’s full manufactured in PP which makes suitable for applications with acids.

Technical Features

Housing/sensor material
PP
Mechanical installation
2” GAS M (PP flange DN80 opt.)
Protection degree
IP67
Electrical connection
Internal push connectors
Working temperature
-20 ÷ +60°C
Pressure
from 0,5 to 1,5 bar (absolute)
Power supply
12Vdc; 20÷30Vdc; 24,115,230Vac
Power consumption
2W

Analog output
4...20mA, max 750ohm
Relays output
n°2 3A 230Vac (n.o.)
Digital communication
MODBUS RTU
Max measure range
max 0.25 ÷ 6m
max 0.40 ÷10m
In case of non perfectly reflecting surfaces, the maximum distance value will be reduced
Blind distance
0,25m (6m versions) / 0,40m (10m versions)

Temperature compensation
digital from -30 to 70°C
Accuracy
±0,5% (of the measured distance) not better than ±3mm.
Resolution
1mm.
Calibration
2 buttons or via MODBUS RTU
Warm-up
5 minutes typical
Display
VL620|621 programming module (opt.) with 4 keys and matrix LCD



1. Skintop M16
2. Head fixing bolt
3. Fixing bolt
4. Sensor

KTU5 Level control and measure unit

Ultrasonic - G 2"/PP threaded connection + n.2 2" BSP/ PP fixing bolts
4÷20mA output with 2 relays for alarms or pumps control
Calibration by 2 push-buttons, VL620 programming display
or via MODBUS RTU
Working temperature: -20 ÷ +60°C

	Version	
	1	IP67, range 0,25÷6m, with electrical connection by 2 internal screw terminal blocks
	3	IP67, range 0,40÷10m, with electrical connection by 2 internal screw terminal blocks
	5	IP67, range 0,25÷6m, with electrical connection by 2 internal screw terminal blocks with BIS/USC measurement units
	7	IP67, range 0,40÷10m, with electrical connection by 2 internal screw terminal blocks with BIS/USC measurement units
	Housing material	
	B	PP polypropylene
	Z	Special
	Power supply	
	0	24Vac 50÷60Hz
	1	115Vac 50÷60Hz
	2	230Vac 50÷60Hz
	4	20÷30Vdc
	5	12Vdc Attention! Max distance 3 m (only for version 1 and 5)
	9	Special
	Accessories	
	A	None
	C	DN80 PN6 UNI 1092-1 / PP flange (600J001T)
	D	VL620 keyboard/display programming module with 1m cable and USB connection
	E	Mounting bracket in PP (835B026Z)
	S	S/W for communication MODBUS (010F105A)
	Z	Special