

PROCESS AUTOMATION

LEVEL MEASUREMENT OF LIQUIDS AND

BULK MATERIALS WITH ULTRASONIC SENSORS





LEVEL SENSOR LUC T20

- Sensing range from 0.25 m to 8 m
- Wide range of process fittings including G1½, 1½ NPT, G2" and 2" NPT
- HART functionality for remote diagnostic capability
- Rotatable housing with LED indication

- 2- or 4-wire electronic assemblies for operation
- Intelligent operation and evaluation techniques
- Simple push-button configuration with optional, plug-in LC display
- Digital communication with PROFIBUS PA



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AREAS OF APPL

LUC ultrasonic sensors are comp
contact level measurement of li
includes sensors with a wide s
0.25 m to 15 m (1 ft to 49 ft). P
temperature sensor for echo



LEVEL SENSOR LUC T30

- Sensing range from 0.6 m to 15 m
- 4-wire electronic connection suitable for hazardous dust atmospheres – Zone 20/ Class II, Division 1
- Intelligent operation and evaluation techniques
- Simple push-button configuration with optional, plug-in LC display
- HART functionality for remote diagnostic capability
- Digital communication with PROFIBUS PA

LEVEL SENSOR LUC T10

Sensing range from 0.25 m to 7 m
Wide range of process fittings including
1½", 1½" NPT, G2" and 2" NPT
Rotatable housing with external
LED indication
Two-wire loop powered configuration certified
ATEX ia/ATEX II 2G and Class I, Div.1
Intelligent operation and evaluation techniques
Simple push-button configuration with optional,
on-board LC display
HART functionality for remote diagnostic
capability
Digital communication with PROFIBUS PA

APPLICATION

Compact measuring instruments for continuous, non-
liquids and bulk material. This line of products
selection of electronics and sensing ranges from
Plus, these units are equipped with an internal
time compensation.

LEVEL SENSOR UC500-D1-3K-V7

- Sensing range from 60 mm
to 550 mm (2.5 in to 21.5 in)
- Suitable for liquid level detection
in tanks
- Wide supply voltage range
10 V DC ... 250 V DC
20 V AC ... 250 V AC
- 3 independent relay outputs
- Simple DIP switch configuration
- Internal temperature compensation

LEVEL SENSOR LUC4T

- Sensing range from 0.3 m to 4 m
(1 ft to 13 ft)
- Active fixed target suppression
- Compact design
- Simple calibration
- Missing echo detection
- Electronic outputs
4 mA ... 20 mA
0 V ... 10 V



TECHNICAL INFORMATION

Model number	UC500-D1-3-V7	LUC 4T	LUC T10	LUC T20	LUC T30
					
Ambient temperature range min/max	-20 °C ... +60 °C	-25 °C ... +70 °C	-40 °C ... +80 °C	-40 °C ... +80 °C	-40 °C ... +80 °C
Operating press. abs.	./.	./.	3 bar	3 bar	2.5 bar
Process connection	Stainless steel M30 x 1.5	PP or Stainless steel G/NPT 1 1/2"	G/NPT 1 1/2", 2"	G/NPT 1 1/2", 2"	DN 100 (Mounting strap)
Process material	./.	PP (1.4571), PTFE	PVDF	PVDF	PP (1.4571)
Min. sensing range	0.06 m	0.3 m	0.25 m (0.4 m)	0.25 m (0.4 m)	0.6 m
Max. sensing range liquids	0.55 m	4 m	7 m	8 m	15 m
Max. sensing range solids	./.	./.	3.5 m	3.5 m	7 m
Output	3 Relay outputs N.O./N.C. selectable	1 Analogue output 4 mA ... 20 mA 1 Voltage output 0 V ... 10 V	2-wire 4 mA ... 20 mA/HART/ PROFIBUS PA	2-wire, 4-wire 24 V DC, 115 V AC, 230 V AC 4 mA ... 20 mA/HART/ PROFIBUS PA	4-wire 24 V DC, 115 V AC, 230 V AC 4 mA ... 20 mA/HART/ PROFIBUS PA
Certification PTB/DMT/ATEX			II 2 G EEx ia II C T6 IS Cl. I-III Div. 1 IS Cl. I-III Div. 1		II 1/3 D
FM CSA					Cl. II Div. I Cl. II Div. I

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