Level Measurement

Continuous level measurement — Ultrasonic controllers

SITRANS LUT400 series

Selection and Ordering data		Article No.
SITRANS LUT420 and LUT430 Compact u trasonic level controllers for continuous short to long-range level or volume measurement of liquids, slurries, and solids. Both units include basic relay functions for pumps, alarms, and other controls, plus onboard data logging. LUT430 offers additional advanced pump control and alarm functionality, open channel flow monitoring, and basic flow data logging capability. Functionality varies by model.		7ML5050- 0 - 0 0 0 0
Model SITRANS LUT420 - Level controller SITRANS LUT430 - Level, Pump & Flow controller	• •	A B
Enclosure display options With display With remote panel mount display [Includes panel mount cable extension, 2.5 m (8.2 ft)]	•	A B
No display (blank lid provided) Note: Enclosure includes back-plate for wall and pipe mounting, and an integrated clip for DIN-rail mounting. DIN-rail mounting for standard TS35 x 7.5 and TS35 x 15 mm DIN-rail to IEC 60715, EN 60715	•	C
Input voltage 100 230 V AC ± 15 % 10 32 V DC	•	1 2
Cable inlets 3 cable inlets, cable glands not supplied 3 cable inlets, 3 M20 plastic cable glands supplied	•	1 2
Number of measurement points Single point system (includes one transducer input, one mA output, and one external temperature sensor input)	•	1
Communications and I/O HART, 2 discrete inputs, 3 relays	•	D
Approvals General purpose CE, FM, CSA _{US/C} , UL, C-TICK Hazardous locations CSA Class I, II, III, Div. 2 (Groups A, B, C, D, F, G)	•	A C

We can offer shorter delivery times for configurations designated with the Quick Ship Symbol
 For details see page 9/5 in the appendix.

SITIANS	.0 1 400 Series
Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
Manufacturer's test certificate M to DIN 55350, Part 18 and to ISO 9000	C11
Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	Y15
Namur NE43 failsafe setting - device preset to failsafe < 3.6 mA	N07
Operating Instructions	Article No.
English	7ML1998-5MV01
French	7ML1998-5MV11
Spanish	7ML1998-5MV21
German	7ML1998-5MV31
Italian	7ML1998-5MV51
Multi-language compact operating instructions Note: The operating instructions should be ordered as a separate line item on the order.	7ML1998-5XU81
Communications Manual	
English	7ML1998-5NE01
French	7ML1998-5NE11
Spanish	7ML1998-5NE21
German	7ML1998-5NE31
Italian	7ML1998-5NE51
Note: The communications manual should be ordered as a separate line item on the order.	
Accessories	
Tag, stainless steel, 12 x 45 mm (0.47 x 1.77 inch), one text line, suitable for enclosure	7ML1930-1AC
TS-3 Temperature Sensor - see TS-3 in catalog	7ML1813
Panel mount cable extension, 2.5 m (8.2 ft)	7ML1930-1GF
Qty 3 cable glands and retaining nuts	7ML1930-1GB
USB cable, 2 m (6.56 ft) - Standard USB-A to USB-mini B	7ML1930-1GD
HART modem/RS-232 (for use with a PC and SIMATIC PDM)	7MF4997-1DA
Hart modem/USB (for use with a PC and SIMATIC PDM)	7MF4997-1DB
Sunshield, 304 stainless steel SITRANS RD100 Remote display - see Chapter 7	7ML1930-1GE
SITRANS RD200 Remote display - see Chapter 7	
SITRANS RD500 web, datalogging, alarming, ethernet, and modem support for instrumentation - see Chapter 7	7ML5750- 1AA00-0
Spare parts	
Panel mount retrofit kit (convert standard unit with display to panel mount version)	7ML1830-1PA
Terminal block replacement kit (5 piece kit with one of each removable terminal)	7ML1830-1PB
Wall/Pipe mount plate	7ML1830-1PC
Enclosure (include blank label)	7ML1830-1PD
SITRANS LUT400 Lid (with Display)	7ML1830-1PE
SITRANS LUT400 Lid (blank)	7ML1830-1PF
Fuse - AC (0.25 A, 250 V, Slow Blow)	7ML1830-1PG
Fuse - DC (1.6 A, 125 V, Slow Blow)	7ML1830-1PH
Battery BR2032	7ML1830-1PJ
Panel mount gasket and fastener kit	7ML1830-1PK
DIN-rail clip	7ML1830-1PL

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SITRANS LUT400 series

Selection and Ordering data	Article No.
SITRANS LUT440 The SITRANS LUT440 is the most accurate and featured model in the LUT400 series. It includes high accuracy open channel monitoring, relay functions for external samplers, totalizers, alarms, and enhanced data logging, as well as all pump and control functions available with other models in the LUT400 series.	7ML5050- 0 - 0 0 0
Model SITRANS LUT440 - High accuracy Open Channel Monitor Monitor Monitor Monitor Monitor Monitor Monitor Monitor Monitor Moni	С
Enclosure display options With display With remote panel mount display (Includes panel mount cable extension, 2.5 m (8.2 ft) No display (blank lid provided)	A B
Note: Enclosure includes back-plate for wall and pipe mounting, and an integrated clip for DIN-rail mounting. DIN-rail mounting for standard TS35 x 7.5 and TS35 x 15 mm DIN-rail to IEC 60715, EN 60715	
Input voltage 100 230 V AC ± 15 % 10 32 V DC	1 2
Cable inlet 3 cable inlets, cable glands not supplied 3 cable inlets, 3 M20 plastic cable glands supplied	1 2
Number of measurement points Single point system (includes one transducer input, one mA output, and one external temperature sensor input)	1
Communications and I/O HART, 2 discrete inputs, 3 relays	D
Approvals General purpose CE, FM, CSA _{US/C} , UL, C-TICK Hazardous locations CSA Class I, II, III, Div. 2, (Groups A, B, C, D, F, G)	A C

- Ompatible with all EchoMax Transducers. High accuracy OCM performance with the use of an XRS-5 transducer and TS-3 temperature sensor (each sold separately).
- We can offer shorter delivery times for configurations designated with the Quick Ship Symbol
 For details see page 9/5 in the appendix.

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
Manufacturer's test certificate M to DIN 55350, Part 18 and to ISO 9000 ■	C11
Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: ● Measuring-point number/identification (max. 27 characters) specify in plain text	Y15
Namur NE43 failsafe setting - device preset to failsafe < 3.6 mA	N07
Operating Instructions	Article No.
English	7ML1998-5MV01
French	7ML1998-5MV11
Spanish	7ML1998-5MV21
German	7ML1998-5MV31
Italian	7ML1998-5MV51
Note: The operating instructions should be ordered as a separate line item on the order.	
Communications Manual	
English	7ML1998-5NE01
French	7ML1998-5NE11
Spanish	7ML1998-5NE21
German	7ML1998-5NE31
Italian	7ML1998-5NE51
Note: The communications manual should be ordered as a separate line item on the order.	
Accessories	
Tag, stainless steel, 12 x 45 mm (0.47 x 1.77 inch), one text line, suitable for enclosure	7ML1930-1AC
TS-3 Temperature Sensor - see TS-3 in catalog	7ML1813
Panel mount cable extension 2.5 m (8.2 ft)	7ML1930-1GF
Qty 3 cable glands and retaining nuts	7ML1930-1GB
USB cable 2 m (6.56 ft) - Standard USB-A to USB-mini B	7ML1930-1GD
HART modem/RS-232 (for use with a PC and SIMATIC PDM)	7MF4997-1DA
HART modem/USB (for use with PC and SIMATIC PDM)	7MF4997-1DB
Sunshield, 304 stainless steel	7ML1930-1GE
SITRANS RD100 Remote display - see Chapter 7	
SITRANS RD200 Remote display - see Chapter 7	
SITRANS RD500 web, datalogging, alarming, ethernet, and modem support for instrumentation - see Chapter 7	7ML5750- 1AA00-0
Spare parts	
Panel mount retrofit kit (convert standard unit with display to panel mount version)	7ML1830-1PA
Terminal block replacement kit (5 piece kit with one of each removable terminal)	7ML1830-1PB
Wall/Pipe mount plate	7ML1830-1PC
Enclosure (include blank label)	7ML1830-1PD
SITRANS LUT400 Lid (with Display)	7ML1830-1PE
SITRANS LUT400 Lid (blank)	7ML1830-1PF
Fuse - AC (0.25 A, 250 V, Slow Blow)	7ML1830-1PG
Fuse - DC (1.6 A, 125 V, Slow Blow)	7ML1830-1PH
Battery BR2032	7ML1830-1PJ
Panel mount gasket and fastener kit	7ML1830-1PK
DIN-rail clip	7ML1830-1PL