

Datasheet for

The Probe Ultrasonic level transmitter: continuous, non-contact, 5 m (16.4 ft) range. Monitors level for liquids and slurries. With 3-wire relay output. Product is in phase out but still available to order, Consider replacing with: SITRANS Probe LU240 7ML51

Ordering data: **7ML12012EE00**

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	Ultrasonic level meter
Brand name	The Probe
Type designation	The Probe Ultrasonic level transmitter: continuous, non-contact, 5 m (16.4 ft) range. Monitors level for liquids and slurries. With 3-wire relay output. Product is in phase out but still available to order, Consider replacing with: SITRANS Probe LU240 7ML51
Article number	7ML12012EE00
Net weight	1,6 kg
Slogan	Fully encapsulated compact transmitter, robust design, and self cleaning face

Mode of operation and application

Measuring principle	ultrasonic
Beam angle	12 Degree

Input

Measuring range

Measuring range	
Measuring range (minimum)	0,25 m
Measuring range (maximum)	8 m

Output

Current output

Signal range	4 ... 20 mA
Load (maximum)	750 Ohm

Digital output

Relay output

Number	1
Type	Normally Closed (NC)

Accuracy

Measuring accuracy, relative	0,25 %
Base factor	Measured value

Operating conditions

Medium temperature	
Medium temperature (minimum)	-40 °C
Medium temperature (maximum)	60 °C
Degree of pollution	Pollution degree 4
Overvoltage class	Installation category II

Environmental conditions

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Ambient temperature during operation	
Ambient temperature during operation (minimum)	-40 °C
Ambient temperature during operation (maximum)	60 °C
Degree of protection	
IP rating	IP65
NEMA Enclosure Type	NEMA 4X
Electromagnetic compatibility EMC	
Standard for EMC	2004/108/EC

Structural Design

Mechanical design

Design of the device compact version, transmitter integrated

Process connection

Design Thread adapter
 Standard ANSI B1.20.1
 Nominal size 2"-11½ NPT

Material

Process connection

Material polyvinylidene-fluoride (PVDF)

Enclosure

Material Polyvinyl chloride (PVC)

Electrical connections

Connection technology 3-wire technology
 Number of cable entries 2
 Design of the cable entry 1/2" NPT

Display and operating controls

Display with display
 Design of the display LCD

Power supply

Electrical

Voltage type DC
 Nominal voltage, DC 24 V
 Supply voltage, DC
 Supply voltage, DC (minimum) 18 V
 Supply voltage, DC (maximum) 30 V
 Current consumption 0,2 A
 Power consumption effective power 5 W

Certificates and approvals

Verification of suitability CSA us/c
 Verification of suitability C-Tick (RCM)
 Verification of suitability FM
 EC declaration of conformity EG Conformity Declaration

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Reliability (MTBF)	
MTBF	192 a
Standard for MTBF	SN 29500
Determination procedure	calculation with component load
Reference temperature	40 °C
Applicability	Measuring device