

Datasheet for

Pointek CLS300 RF Capacitance point level switch, rod design. Detects level and interface in aggressive liquids, solids, slurries, and foam. Adjustable, 1 m (3.28 ft), insertion, adaptable sensitivity, with active shield to tune out build-up on probe.

Ordering data: **7ML56500AE000HA0**

Y01 {Y01: 481 mm}

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	Point level measurement - Capacitance switch
Brand name	Pointek CLS300
Type designation	Pointek CLS300 RF Capacitance point level switch, rod design. Detects level and interface in aggressive liquids, solids, slurries, and foam. Adjustable, 1 m (3.28 ft), insertion, adaptable sensitivity, with active shield to tune out build-up on probe.
Net weight	2 kg
Slogan	Harsh conditions - Inverse frequency shift capacitance level switch

Mode of operation and application

Measuring principle	capacitive
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Input

Measurand	Level
Unit of the measurand	pF

Output

Digital output

Relay output

Number of outputs	1
Type	Single Pole Double Throw (SPDT)
Switching capacity voltage, AC (maximum)	250 V
Switching capacity current, AC (maximum)	8 A
Switching capacity voltage, DC (maximum)	30 V
Switching capacity current, DC (maximum)	5 A
Switching capacity real power (maximum)	150 W
Switching capacity apparent power (maximum)	2,000 VA
Time constant for smoothing	1 s...60 s
Number of outputs	1
Switching capacity voltage, AC (maximum)	30 V
Switching capacity voltage, DC (maximum)	30 V
Switching capacity current, AC (maximum)	82 mA
Switching capacity current, DC (maximum)	82 mA

Accuracy

Measuring accuracy, relative (maximum)	1.2 %
Base factor	Measured value

Operating conditions

Process temperature	-40 °C...+85 °C
Pressure	
Operating pressure, relative	-1 bar...35 bar

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Environmental conditions

Ambient temperature during operation -40 °C...+85 °C

Degree of protection

IP rating IP65
NEMA Enclosure Type NEMA 4

Electromagnetic compatibility EMC

Standard for EMC IEC 61326-1

Design

Mechanical design

Design of the housing compact version, transmitter integrated

Process connection

Design male thread
Standard ANSI B1.20.1
Nominal size 3/4"-14 NPT

Material

Process connection

Material stainless steel
Material number according to DIN EN 10027-2 1.4404
Material number according to AISI 316L
Gasket fluorocarbon-rubber (FKM/FPM/Viton)

Housing

Material aluminum
Material of the lid aluminium

Sensor

Material of the wetted parts perfluoroalkoxy (PFA)

Electrical connections

Potential insulation galvanic
Potential insulation to all supplies

Display and controls

Display LED
Design of the lid Blanking cover
Controls DIP switch

Power supply

Electrical

Type of voltage supply power supply unit
Voltage type AC, DC
Nominal voltage, DC 24 V
Supply voltage, DC 12 V...250 V
Nominal voltage, AC 115 V, 230 V
Supply voltage, AC 12 V...250 V
Supply voltage frequency 0 Hz...60 Hz
Power consumption effective power 2 W

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Certificates and approvals	
Verification of suitability	FM
Marine approval	Lloyd's Register of Shipping (LR)
Environmental class according to Lloyds' Register approval system	ENV5

The information provided in this data sheet contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.