IO-Link Device Verification

ifm electronic

Verification information

Date / Time	2026-10-14 16:32:51
Verification mode	Internal verification / IO-Link

Verification passed

Device identification

Product name	SMF320
Manufacturer	ifm electronic gmbh
Device ID	1789
Serial number	1213941532
Description	Magnetic-inductive flow meter, 0.30...45.00 m³/h

ifm electronic gmbh confirms that the above mentioned measuring system, following a QM system certified to DIN EN ISO 9001:2015, is duly calibrated and can be traced back to national standards.

Device parameters

Parameter	Value	Minimum Maximum	Description
Diagnosis			
Device Status	Device is OK		Indicator for the current device condition and diagnosis state.
Power supply voltage	0	16 30	Input voltage.
Loop current 2	0	0 24	Actual loop current for analogue output 2.
Operating hours	0 h	0 h 2147482880 h	Counter of the operating hours since delivery.
Signal_Quality	Normal		Signal quality at receiver.
Temperature			
Internal temperature	0 °C	-20 °C 150 °C	Current internal temperature of the device.
Active Events			
Active Events. Bit_0	No event		Device hardware fault
Active Events. Bit_0	No event		Sensor (Volume flow)
Active Events. Bit_0	No event		Sensor (Temperature)
Active Events. Bit_0	No event		Sensor (Conductivity)
Active Events. Bit_0	No event		Sensor-AWE
Active Events. Bit_0	No event		Memory
Active Events. Bit_0	No event		IO-Board
Active Events. Bit_0	No event		Digital output

Parameter	Value	Minimum Maximum	Description
Active Events. Bit_0	No event		Analogue output
Active Events. Bit_0	No event		Pulse output
Active Events. Bit_0	No event		Communicative output
Active Events. Bit_1	No event		Parameter error
Active Events. Bit_2	No event		Short circuit
Active Events. Bit_5	No event		Component malfunction
Active Events. Bit_8	No event		Process variable range overrun
Active Events. Bit_9	No event		Process variable range underrun
Active Events. Bit_12	No event		Measurement range exceeded
Active Events. Bit_14	No event		Device temperature underrun
Active Events. Bit_15	No event		Device temperature overrun
Active Events. Bit_16	No event		Simulation active
Active Events. Bit_17	No event		Load for analogue output of too high impedance. Device Status = 2 (Out of specification)
Active Events. Bit_18	No event		Local user interface disturbed. Device Status = 1 (Maintenance required)
Active Events. Bit_22	No event		No media detected
Active Events. Bit_23	No event		Signal quality low
Active Events. Bit_24	No event		Measuring pipe not sufficiantly filled. Too low conductivity of medium. Device Status = 2 (Out of specification)
Active Events. Bit_30	No event		Test Event 1. Device Status = 1 (Maintenance required)
Active Events. Bit_31	No event		Test Event 2. Device Status = 1 (Maintenance required)
Detailed Device Status			
Detailed Device Status [1]	No malfunction		List of all currently pending events in the device.
Detailed Device Status [2]	No malfunction		List of all currently pending events in the device.
Detailed Device Status [3]	No malfunction		List of all currently pending events in the device.
Detailed Device Status [4]	No malfunction		List of all currently pending events in the device.
Detailed Device Status [5]	No malfunction		List of all currently pending events in the device.
Parameter			
Memory			
Flow			
Lo.F	0.00 m^3/h	-54.00 m^3/h 54.00 m^3/h	Minimum memory value for flow.
Hi.F	0.00 m^3/h	-54.00 m^3/h 54.00 m^3/h	Maximum memory value for flow.

Parameter	Value	Minimum Maximum	Description
Temperature			
Lo.T	0 °C	-20 °C 150 °C	Minimum memory value for temperature.
Hi.T	0 °C	-20 °C 150 °C	Maximum memory value for temperature.
Conductivity			
Lo.C	0 µS/cm	0 µS/cm 100000 µS/cm	Minimum memory value for conductivity.
Hi.C	0 µS/cm	0 µS/cm 100000 µS/cm	Maximum memory value for conductivity.
Identification			
Application-specific Tag	***	0 32	Possibility to mark a device with user- or application-specific information.
Function Tag	***	0 32	Possibility to mark a device with function-specific information.
Location Tag	***	0 32	Possibility to mark a device with location-specific information.

Actual measurement values (cyclic data)

Name	Value	Unit
Totaliser	1248.229200	m^3
Flow	-9.14	m^3/h
Temperature	-0.03	°C
Conductivity	8	µS/cm
Device Status	Device is OK	

Remark: This certificate was generated automatically and is valid without signature.