

TYPE APPROVAL CERTIFICATE No. ELE065217XG/002

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description	Flow Measuring system
Туре	Flowphant T - DTT31
Applicant	Endress + Hauser Wetzer GmbH + Co. KG
	Oberer Wang 1
	87484 Nesselwang
	GERMANY
Manufacturer	Endress + Hauser Wetzer GmbH + Co. KG
Place of manufacture	Oberer Wang 1
	87484 Nesselwang
	GERMANY
Reference standards	Rules for the classification of ships Part C - Machinery, systems
	and fire protection Ch.3, Sect. 6, Table 1.

Issued in HAMBURG on December 7, 2017. This Certificate is valid until December 6, 2022

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RINA Services S.p.A. Giuseppe Russo

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE No. ELE065217XG/002 Enclosure - Page 1 of 1 Flowphant T - DTT31

Product description:

The Flowphant T DTT31 is a flow switch for monitoring and displaying of relative mass flow rates of liquids.

Main characteristics: Flow rates: 0.03 to 3m/s Process connection: threads Material: stainless steel (housing, sensor) Power supply: 24V DC Outputs: 1 x switch PNP, 2 x switch PNP or switch PNP + 4 to 20mA HMI: LC-display; status LEDs (red, green, yellow), 3 control keys Communication: PC interface for configuration Sensor length: 100mm Degree of protection: IP65, IP66 (M12x1 connector) Software version: 01.00.xx

Order code: DTT31 - 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110

- 10 Approvals: A
- 20 Electrical connection: 1; 2; 3
- 30 Power supply, output: A; B; C
- 40 Display: 1
- 50 Measuring range: 1
- 60 Adjustment: 1
- 70 Process connection: AA; AB; AE; DA; DE
- 80 Insert length L; diameter D: 2A; 2C
- 90 Additional equipment; material certificate: A; B; C
- 100 Model: A; B; C; D
- 110 Marking (option): A; B; C; D; F

Documents:

- TI00125R/09/EN/02.14

Test reports:

Paconsult GmbH: - 0722B-05 dated 06.06.05; 1016-06 dated 04.04.06 SENTON: - 50515-050791 Ed. 1 dated 20.12.05 Endress+Hauser: - DTT31_ECB_002, DTT31_ECH_002, DTT31_ECS_002, DTT31_EEV_002 dated 2006-10-20; - DTT31_EPR_003, DTT31_ESD_002 dated 2006-10-20; Intertek Deutschland GmbH: - 2218859KAU-001B dated 2013-03-27; Senton: - 50515-050791 Ed 1 dated 20 Dezember 2005;

Remarks:

- The products fulfill EC-Code: EC31/41. SN

HAMBURG December 07, 2017



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