TEPLOVODOKHRAN

SCIENTIFIC PRODUCTION ENTERPRISE

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PULSAR)

Quality management system certified

GOST ISO 9001-2015

Flow sensor DN15

Passport

UTLI.407223.005 TU (var.5)

1 Technical data

- 1.1 The principle of operation of the sensor is based on the control of the number of revolutions of the impeller in the flow. The speed of rotation of the impeller is proportional to the instantaneous flow rate of the flowing fluid.
 - 1.2 The sensor is designed for continuous round-the-clock operation.
 - 1.3 Power supply voltage from 4 to 24 V.
 - 1.4 Maximum output current 50 mA
 - 1.5 Overvoltage protection on all terminals.
 - 1.6 Output type: open collector.
 - 1.7 Pulse weight 55,466 pulse/I (0,018 l/pulse).
- 1.8 Water consumption: minimal Qmin 0.03 m³/hour; Transitional Qt 0.12m³/hour; rated Qn 1.5 m³/hour; maximum Qmax 3.0 m³/hour; Sensitivity threshold 0.015.

Notes:

- 1 The highest flow rate Qmax is the flow rate at which the pressure loss does not exceed 0.1 MPa (1.0 kgf/cm2) and the meter can operate no more than 1 hour per day.
- 2 Rated consumption Qn is a flow equal to 0.5 Qmax at which the meter can operate continuously for a long time
- 3 Transitional consumption Qt is the flow rate at which the meter has an error of \pm 2%, and below which it is \pm 5%.
- 4 Minimal consumption Qmin is the flow rate at which the meter has an error of \pm 5% and below which the error is not standardized.
 - The sensitivity threshold is the flow rate at which the impeller comes into continuous rotation.
- 1.9 The limit of the basic permissible error of flow sensors upon release from production and during repair does not exceed:

in the range Q min to Q t - ±5%;

in the range Q t to Q max - ±2%.

- 1.10 Working pressure in the pipeline no more than 1,6 MPa (16 kgf/cm2).
- 1.11 The flow sensor can be operated at ambient temperature from minus 40°C to plus 90° C
 - 1.12 service lifetime of the flow sensor is at least 12 years.
 - 1.13 Overall dimensions of the flow sensor are given in the appendix.
 - 1.14 The delivery set includes:
 - Flow sensor 1 pcs.
 - passport 1 pcs.

3 STORAGE

3.1 Storage of the sensor in a package in the warehouses of the consumer must comply with storage conditions 5 in accordance with GOST 15150.

4 WARRANTY

- 4.1 The manufacturer guarantees the compliance of the flow sensor with the requirements of the specifications UTLI.407223.005 TU when used for its intended purpose, the consumer observes the conditions of operation, transportation and storage.
 - 4.2 The warranty period of operation is 4 years, subject to the conditions of clause 4.1.

5 ACCEPTANCE DETAILS

Flow sensor serial №_____conforms with the requirements of technical conditions UTLI.407223.005 TU and is recognized as fit for operation.

technical control department

Date of issue

appendix

Dimensional drawing and electrical circuit diagram



