



Special Features

- Accupuls interface to all meters with pulse interface
- Key date billing
- Mobile Reading "Walk-by"
- Fixed Network Reading



Description

The accupuls accumulates pulses to an integral index and stores additional values such as:

- Monthly / Annual values
- Current flow rate
- Minimum / Maximum flow rate

This data can be read mobile with a handheld computer or read remotely in an M-Bus wired fixed network.

Accupuls can read out meters without data interface, these can be:

- Bulk water meters \geq DN 400
- MIDs (Magnetic Inductive Meters)
- High pressure meters
- Hot water meters
- Meters of other manufacture

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Technical Data

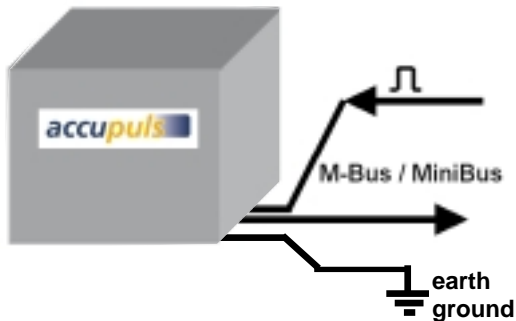
Pulse input

according to ISO / TC 30 / SC 7 / WG 8 draft paper

- Voltage input: max. 24 V
- Max. input frequency: 12 Hz
- Min. pulse length: 32 ms open/close
- Cable length: 3 m
- Cable extension: sum of cable length: 9m (sensor + accupuls + extension)

Transient protection is integrated inside accupuls. A reed switch with varistor cannot be used. For Sensus Reed Switches without varistor see accessories.

Note: Owing to the undifferentiated pulse input, reverse flow cannot be identified and will be added to the forward flow total



Data output

- M-Bus and MiniBus (Auto speed detection and automatic switch over)
- Protocol according to IEC 870 / EN 1434-3

Data

- Counter reading
- Meter-ID, fabrication number and customer location
- Momentary flow rate
- Minimum flow rate and date/time
- Maximum flow rate and date/time
- Annual key date values
- Last year and year before last year
- Key date programmable (e.g. 31. Dec.)
- Monthly key date values
- Last 12 months
- key-date programmable (e.g. 15th of the month)

Settings

- Input pulse value (Default: 1 m³)
- Start index (Default: 0 m³)
- Annual key date (Default: 31. December)
- Monthly key date (Default: 1st)

Protection class

- IP 68 (1 week under 1 meter water)

Operating life time

- 8 year (lithium battery)

Temperature range

- Storage: 0° to +50° C
- Operation: 0° to +50° C

Order Information

accupuls

Order No. 182096

Programming Software

- MiniCom PC software to program and read out the accupuls.

Programming Options

- MiniPad (182079) MDK-PC (88004082)
- M-BUS directly

Reading-options

- MiniPad (182079) MDK TTL (04410265) (in conjunction with PSION Workabout)
- MiniPad (182079) MDK PC (88004082) (in conjunction with a PC and MiniCom-Software) (04410131)
- M-BUS directly (norm-compliant M-BUS Data collector and Data converter)

Accessories:

Reed Switches:

- R 011 OrderNo. 113698
- R 022 OrderNo. 113699
- RD 011 OrderNo. 117803
- RD 022 OrderNo. 117804

For compatibility to the meter please see also the datasheet LB8200 or LB8400. Other makes of reed switch with varistor cannot be used.

For details of accessories such as readout devices (e.g. Inductive Meter Reading System), software (e.g. DOKOM Mobil) etc. please see separate leaflets.

