MEASUREMENT OF FLOW AND LEVEL

ULTRASONIC LEVEL METERS

LEVELIS LU-55
- continuously monitor level height of liquid media,
- sludge or wastewater in both open and closed tanks and channels
- measurement range 0.25 to 20m
- easy installation and maintenance
- 4-20mA output
- protection class IP68/P
c
- accuracy of measurement ±0.05% (LU - 55N - 10, LU - 55N - 6)
- ±0.1% (LU - 55N - 2)

DISPLAY UNIT

LEVELIS LPU-4XX-P
- visualize physical quantities such as fluid level or flow rate
- 4-digit LED display
- input signal 0/4 to 20mA
- 2 or 4 relay outputs
- operator-panel or wall mountin
- RS 485/ Modbus communication interface

LEVELIS LPU-420-W
- visualize physical quantities such as fluid level or flow rate
- 4-digit LED display
- input signal 0/4 to 20mA
- 2 or 4 relay outputs
- operator-panel or wall mountin
- RS 485/ Modbus communication interface

LEVELIS LLU-400
- visualize physical quantities such as fluid level or flow rate
- 4-digit LED display
- powered from current loop 4 to 20mA
- fitted under connector head (DIN 43650)
- protection class IP 65

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- 4-digit LED display
- powered from current loop 4 to 20mA
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MEASUREMENT OF FLOW AND LEVEL

COMPANY HISTORY

1990 – establishment of ELIS PLZEŇ cooperative society
1991 – transformation to ELIS PLZEŇ Ltd.
1997 – transformation to ELIS PLZEŇ joint stock company

PRODUCTION PROGRAM AND SERVICES EVOLUTION

1991 – Introduction of water heat meter’s production
1993 – Introduction of steam heat meter’s production
– Installation and launching heat meter’s test rig for metrological verification and calibration.
1995 – Introduction of ultrasonic flow meter’s production
1998 – Introduction of ultrasonic flow meter’s production
– Installation and launching of flow meter’s test rig for metrological verification and calibration, dimension DN25 to DN150
2002 – Installation and launching of flow meter’s test rig for metrological verification and calibration, dimension DN15 to DN40
– Introduction of ultrasonic flow meter’s production specially designed for diesel engines and boilers
2003 – Introduction of ultrasonic battery supplied water meter’s production
2005 – Company certified ISO 9001
2006 – Enlargement of testing center for new test rigs for metrological verification and calibration of flow meters, calorimetric counters for heat meters and temperature sensors
– New ultrasonic flow meter battery supply for big dimension DN 200 to DN 2000 (8” to 80”) launched
– New high pressure ultrasonic flow meters launched up to 160 bar (up to 2320 psi)
2007 – New ultrasonic level meters LEVELIS launched
2009 – New ultrasonic water and flow meters with battery supply with possibility of remote data transfer
2010 – New ultrasonic heat/cold meters for big dimension up to DN 1200
2011 – Company certified according to MID
– Enlargement of testing center for new test rig for metrological verification and calibration of flow meters up to DN 800
**INDUCTION FLOW METERS**

- **FLONET FN20XX.1**
  - Flow-rate and volume measurements, electrically conductive liquids
  - Dimensions: DN 10 to DN 1000
  - Maximum pressure PN 40
  - Intermittent measurement accuracy ±0.2%
  - Communication: RS 485, electrical outputs

- **FLONET FH10XX.1**
  - Flow-rate and volume measurements, electrically conductive liquids
  - Dimensions: DN 6 to DN 1200
  - Maximum pressure PN 40
  - Flow-rate and consumption measurement, in water supply network
  - Communication: RS 485, electrical outputs

- **FLONET FS10XX**
  - Flow-rate and volume measurements, electrically conductive liquids
  - Dimensions: DN 80 to DN 200
  - Maximum pressure PN 240
  - Flow-rate and consumption measurement of liquids
  - Communication: RS 485, electrical outputs

**BATTERY POWERED ULTRASONIC FLOW METERS**

- **FLOMIC FL503X and FLOMIC FL505X**
  - Flow-rate and consumption measurement and pressure measurement of liquids
  - One and dual beam version
  - Dimensions: DN 32 to DN 300
  - Pressure PN 16, PN 40
  - Flow-rate sampling period 1s
  - Storage of measured data
  - Communication: RS 485, electrical outputs

- **FLOMIC FL305X**
  - Flow-rate and consumption measurement in water supply networks
  - Dimensions: DN 200 to DN 300
  - Pressure PN 40
  - Flow-rate and consumption measurement of water
  - Communication: RS 485, electrical outputs

- **SONOELIS SE4015X and SONOELIS SE4025X**
  - Flow-rate and consumption measurement of liquids in high pressure pipes
  - One and dual beam version
  - Dimensions: DN 60 to DN 200
  - Pressure PN 40
  - Flow-rate and consumption measurement of liquids
  - Communication: RS 485, electrical outputs

**ULTRASONIC FLOW METERS**

- **FLOMIC FL3065**
  - Flow-rate and consumption measurement in water supply networks
  - Dimensions: DN 200 to DN 300
  - Pressure PN 40
  - Flow-rate and consumption measurement of liquids
  - Communication: RS 485, electrical outputs

- **SONOELIS SE804X and SONOELIS SE806X**
  - Flow-rate and consumption measurement of liquids
  - Dimensions: DN 60 to DN 200
  - Pressure PN 40
  - Flow-rate and consumption measurement of liquids
  - Communication: RS 485, electrical outputs

- **SONOELIS SE404X and SONOELIS SE406X**
  - Flow-rate and consumption measurement of liquids
  - Dimensions: DN 32 to DN 300
  - Pressure PN 40
  - Flow-rate and consumption measurement of liquids
  - Communication: RS 485, electrical outputs

**BATTERY POWERED ULTRASONIC WATER METERS**

- **FLOMIC FL502X and FLOMIC FL504X**
  - Flow-rate and volume measurements in water supply networks
  - Dimensions: DN 32 to DN 1200
  - Pressure PN 16
  - Flow-rate and consumption measurement
  - Communication: M-Bus, GSM, optical interface, electrical outputs

- **FLOMIC FL503X and FLOMIC FL505X**
  - Flow-rate and consumption measurement in water supply networks
  - Dimensions: DN 32 to DN 1200
  - Pressure PN 40
  - Flow-rate and consumption measurement of water
  - Communication: M-Bus, GSM, optical interface, electrical outputs

- **SONOELIS SE4015**
  - Flow-rate and consumption measurement of liquids of big dimension
  - Dimensions: DN 60 to DN 200
  - Pressure PN 40
  - Maximum temperature of measured medium 150°C
  - Measurement accuracy ±2%
  - Storage of measured data
  - Communication: RS 485, electrical outputs

- **SONOELIS SE404X**
  - Flow-rate and consumption measurement of liquids of big dimension
  - Dimensions: DN 60 to DN 200
  - Pressure PN 40
  - Maximum temperature of measured medium 150°C
  - Measurement accuracy ±2%
  - Storage of measured data
  - Communication: RS 485, electrical outputs

**MID Certification**

- **SONOELIS SE4015T**
  - Flow-rate, consumption and pressure measurement of liquids
  - High pressure in piping
  - Dimensions: DN 60 to DN 200
  - Pressure PN 40
  - Flow-rate and consumption measurement of liquids
  - Communication: RS 485, electrical outputs