

Magnetic-inductive flow meter Model FLC-2200EL

WIKA data sheet FL 20.01



for further approvals see
page 13

Applications

- Water meters
- Water and wastewater
- Process industry
- Industrial process liquids and slurries
- Mining and pumps

Special features

- Supplied empty-pipe electrode for diameter \geq DN 50
- Integrated pressure port (on request)
- Internal wet calibration for diameter \leq DN 2000
- Approved for custody transfer (MID MI-001, OIML R49)

Description

Magnetic-inductive flow meters are based on the Faraday principle, by which a conductor which traverses a magnetic field generates a potential oriented perpendicular to that field. The flow tube is enclosed by two flanges and also by two coils. The magnetic field which is generated by the electric current running through the coils induces a potential difference in the electrodes that is proportional to the flow being measured.

A WIKA signal converter, either attached directly to the instrument or separated from it (e.g. model FLC-608), generates the current to supply the magnetic coil, detects the potential difference between the electrodes, processes the signal to calculate the flow and manages communication with the external control systems.

The model FLC-2200EL corresponds to the latest state-of-the-art for water-cycle and process applications. The flow meter is the standard solution for a wide range of industrial applications. The model FLC-2200EL offers a high accuracy



**Model FLC-2200EL with model FLC-608 signal converter
in compact version**

and extensive bidirectional flow measuring ranges in a robust, fully welded and potted design.

If particular ambient conditions require it, the model FLC-2200EL can be supplied in stainless steel, with flange or with special painting for class C4 environments in accordance with UNI EN ISO 12944-2. The measuring instruments are manufactured in accordance with the OIML R49-1:2013 standard.

To be able to measure even very small potentials, the inside of the flow tube is electrically insulated so that the process liquid does not come into contact with the material of the flow tube or flanges.

The flange and the outer surface of the sensor are coated with acrylic paint. Thus the measuring instrument has an excellent resistance to water, even with permanent immersion.

Specifications

Available pipe diameters

| Diameter | | | | | | | | | | | | | | | | |
|----------|-----|------|-----|------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| mm | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 |
| in | 0.5 | 0.75 | 1 | 1.25 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 |
| mm | 450 | 500 | 600 | 700 | 800 | 900 | 1,000 | 1,200 | 1,300 | 1,400 | 1,500 | 1,600 | 1,700 | 1,800 | 2,000 | |
| in | 18 | 20 | 24 | 28 | 32 | 36 | 40 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 80 | |

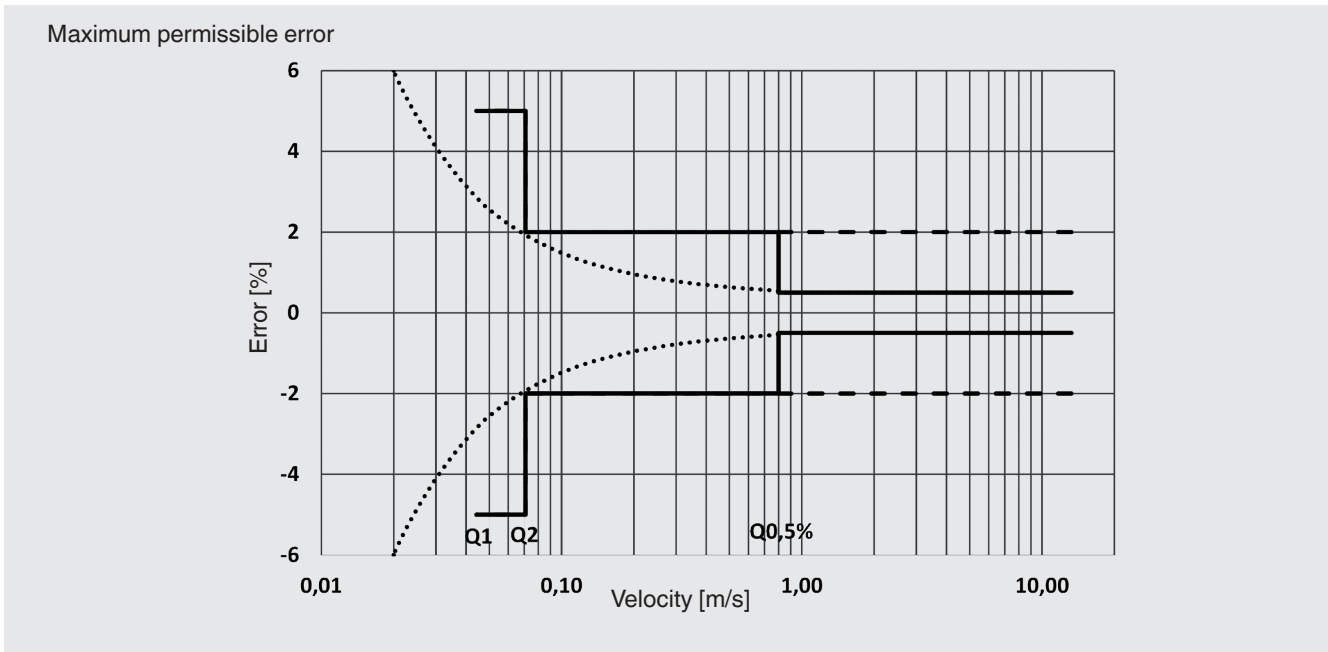
| Specifications | | |
|---|--|---|
| Materials | | |
| Flow tube | <ul style="list-style-type: none"> ■ Stainless steel 304 ■ Stainless steel 316 ■ Stainless steel | |
| Flanges | <ul style="list-style-type: none"> ■ Carbon steel, painted ■ Stainless steel 304 ■ Stainless steel 316 | |
| Electrodes | <ul style="list-style-type: none"> ■ Hastelloy C® (standard) ■ Titanium ■ Tantalum ■ Platinum | |
| Flow tube lining ¹⁾ | <ul style="list-style-type: none"> ■ PTFE (for pipe diameters DN 15 ... DN 100), on request also for DN > 100 ■ Hard rubber (ebonite) (for diameter ≥ DN 125) | |
| Painting of sensor housing and flange | Acrylic paint (painting for class C4 environments on request) | |
| Flow tube lining and medium temperature ²⁾ | Flow tube lining | Medium temperature |
| | PTFE | -40 ... +130 °C [-40 ... +266 °F] (-40 ... +180 °C [-40 ... +356 °F] on request) |
| | Hard rubber (ebonite) | -40 °C ... +80 °C [-40 ... +176 °F] |
| Available flange standards | EN 1092-1, ANSI 150, ANSI 300, ANSI 600, ANSI 900, DIN 2501, BS 4504, AS 2129 (table D - E - F), AS 4087, ISO 7005-1, KS 10K | |
| Ingress protection per EN 60529 | IP68 (continuous immersion to 1.5 m) | |
| Compatible signal converters | <ul style="list-style-type: none"> ■ Model FLC-608A/B/R/P/I ■ Model FLC-406 | |
| Electrical connection | Cable gland M20 x 1.5, terminal block and sealing resin | |

1) Approvals for use in drinking water applications: WRAS, FDA, DPR 777/82 and DM 174.

2) The maximum permissible temperature of the process liquid is limited by the lining material.

Calibration and maximum measuring deviation

The sensors of the model FLC-2200EL belong to reference group B1 (per ISO 11631). Each sensor is wet-calibrated on a hydraulic test bench which is fitted with a reference weighting system and is SIT certified. The measuring deviation of the calibration is 0.2 % ±2 mm/s. The repeatability is 0.1 %.



Integration of the flow meter

The model FLC-2200EL sensors can be combined with all WIKA signal converters. In the separated version, the sensor is connected with the signal converter via a cable, whose length depends on the electric conductivity of the liquid. The maximum length of the cable is 100 m (30 m in combination with battery-operated electronics).

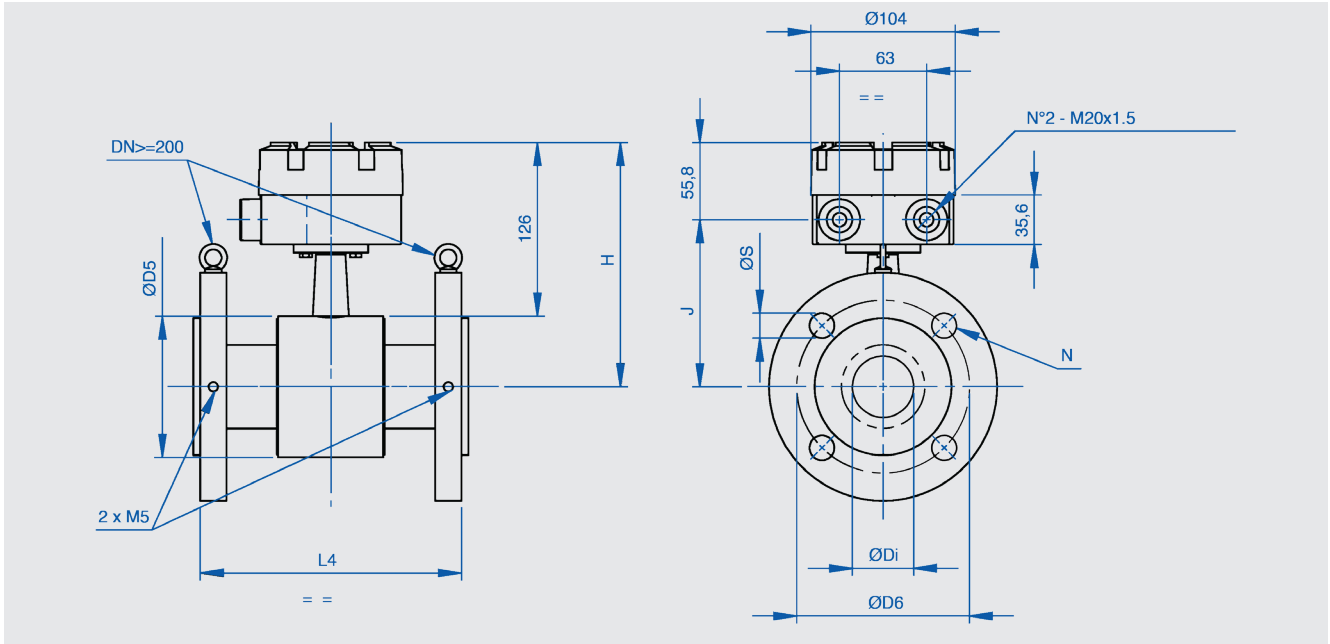
When installed into plastic or coated pipelines, the sensors may require the use of two grounding rings which are inserted between the flange and the mating face. With sensors larger than or equal to DN 50, an empty-pipe electrode (empty-pipe alarm) is supplied as standard.

Flow rates

| Sensor diameter | Flow rate [m ³ /h] | | | | | Ratio R Q3/Q1 |
|-----------------|-------------------------------|--------------------|---------|-------------------|------------------|---------------|
| | Minimum flow Q1 | Transition flow Q2 | Q 0.5 % | Permanent flow Q3 | Overload flow Q4 | |
| DN 25 [1"] | 0.08 | 0.128 | 1.4 | 10 | 12.5 | 125 |
| DN 32 [1.25"] | 0.08 | 0.128 | 2.3 | 10 | 12.5 | 125 |
| DN 40 [1.5"] | 0.128 | 0.205 | 3.6 | 16 | 20 | 125 |
| DN 50 [2"] | 0.2 | 0.32 | 5.65 | 25 | 31.25 | 125 |
| DN 65 [2.5"] | 0.32 | 0.512 | 9.55 | 40 | 50 | 125 |
| DN 80 [3"] | 0.504 | 0.806 | 14.5 | 63 | 78.75 | 125 |
| DN 100 [4"] | 0.8 | 1.28 | 22.6 | 100 | 125 | 125 |
| DN 125 [5"] | 1.28 | 2.048 | 35.3 | 160 | 200 | 125 |
| DN 150 [6"] | 2 | 3.2 | 51 | 250 | 312.5 | 125 |
| DN 200 [8"] | 3.2 | 5.12 | 90.5 | 400 | 500 | 125 |
| DN 250 [10"] | 5.04 | 8.064 | 140 | 630 | 787.5 | 125 |
| DN 300 [12"] | 8 | 12.8 | 200 | 1,000 | 1,250 | 125 |
| DN 350 [14"] | 12.8 | 20.48 | 280 | 1,600 | 2,000 | 125 |
| DN 400 [16"] | 12.8 | 20.48 | 360 | 1,600 | 2,000 | 125 |
| DN 450 [18"] | 25 | 40 | 460 | 2,500 | 3,125 | 100 |
| DN 500 [20"] | 25 | 40 | 570 | 2,500 | 3,125 | 100 |
| DN 600 [24"] | 50 | 80 | 820 | 4,000 | 5,000 | 80 |
| DN 700 [28"] | 50 | 80 | 1,100 | 4,000 | 5,000 | 80 |
| DN 800 [32"] | 100 | 160 | 1,450 | 6,300 | 7,875 | 63 |
| DN 900 [36"] | 100 | 160 | 1,840 | 6,300 | 7,875 | 63 |
| DN 1,000 [40"] | 200 | 320 | 2,270 | 10,000 | 12,500 | 50 |
| DN 1,200 [48"] | 320 | 512 | 3,270 | 16,000 | 20,000 | 50 |
| DN 1,400 [56"] | 500 | 800 | 4,440 | 25,000 | 31,250 | 50 |
| DN 1,500 [60"] | 800 | 1,280 | 5,100 | 40,000 | 50,000 | 50 |
| DN 1,600 [64"] | 1,260 | 2,016 | 5,800 | 63,000 | 78,750 | 50 |
| DN 1,800 [72"] | 2,000 | 3,200 | 7,350 | 100,000 | 125,000 | 50 |
| DN 2,000 [80"] | 3,200 | 5,120 | 9,100 | 160,000 | 200,000 | 50 |

Dimensions in mm

Separated version



| PN 10 EN 1092-1 | | | | | | | | |
|-----------------|-------|----------------|-------|----------------|-------|----|----|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 15 | 84 | 200 (+0/-3) | 112.2 | 11.3 | 65 | 4 | 14 | 168 |
| 20 | 84 | 200 (+0/-3) | 112.2 | 16.9 | 75 | 4 | 14 | 168 |
| 25 | 74 | 200 (+0/-3) | 107.2 | 23.7 | 85 | 4 | 14 | 163 |
| 32 | 83 | 200 (+0/-3) | 111.7 | 31.8 | 100 | 4 | 18 | 167.5 |
| 40 | 88 | 200 (+0/-3) | 114.2 | 37.3 | 110 | 4 | 18 | 170 |
| 50 | 102 | 200 (+0/-3) | 121.2 | 47.3 | 125 | 4 | 18 | 177 |
| 65 | 114 | 200 (+0/-3) | 127.2 | 63.1 | 145 | 4 | 18 | 183 |
| 80 | 127 | 200 (+0/-3) | 133.7 | 74.9 | 160 | 4 | 18 | 189.5 |
| 100 | 161 | 250 (+0/-3) | 150.7 | 97 | 180 | 8 | 18 | 206.5 |
| 125 | 187 | 250 (+0/-3) | 163.7 | 122 | 210 | 8 | 18 | 219.5 |
| 150 | 210 | 300 (+0/-3) | 175.2 | 148 | 240 | 8 | 22 | 231 |
| 200 | 261 | 350 (+0/-3) | 200.7 | 195 | 295 | 8 | 22 | 256.5 |
| 250 | 319 | 450 (+0/-5) | 229.7 | 245 | 350 | 12 | 22 | 285.5 |
| 300 | 371 | 500 (+0/-5) | 255.7 | 296 | 400 | 12 | 22 | 311.5 |
| 350 | 404 | 550 (+0/-5) | 272.2 | 325.6 | 460 | 16 | 22 | 328 |
| 400 | 455 | 600 (+0/-5) | 297.7 | 374.4 | 515 | 16 | 25 | 353.5 |
| 450 | 519 | 450 (+0/-7) | 329.7 | 441 | 565 | 20 | 26 | 385.5 |
| 500 | 570 | 500 (+0/-7) | 355.2 | 492 | 620 | 20 | 26 | 411 |
| 600 | 684 | 600 (+0/-7) | 412.2 | 594 | 725 | 20 | 30 | 468 |
| 700 | 783 | 700 (+0/-7) | 461.7 | 695 | 840 | 24 | 30 | 517.5 |
| 800 | 885 | 800 (+0/-7) | 512.7 | 795 | 950 | 24 | 33 | 568.5 |
| 900 | 996 | 900 (+0/-15) | 568.2 | 894 | 1,050 | 28 | 33 | 624 |
| 1,000 | 1,098 | 1,000 (+0/-15) | 619.2 | 996 | 1,160 | 28 | 36 | 675 |
| 1,200 | 1,312 | 1,200 (+0/-15) | 726.2 | 1,200 | 1,380 | 32 | 39 | 782 |
| 1,400 | 1,512 | 1,400 (+0/-15) | 826.2 | 1,398 | 1,590 | 36 | 42 | 882 |

| PN 10 EN 1092-1 | | | | | | | | |
|-----------------|-------|----------------|---------|----------------|-------|----|----|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 1,500 | 1,612 | 1,500 (+0/-15) | 876.2 | 1,500 | - | - | - | 932 |
| 1,600 | 1,712 | 1,600 (+0/-15) | 926.2 | 1,596 | 1,820 | 40 | 48 | 982 |
| 1,800 | 1,922 | 1,800 (+0/-15) | 1,031.2 | 1,694 | 2,020 | 44 | 48 | 1,087 |
| 2,000 | 2,122 | 2,000 (+0/-15) | 1,131.2 | 1,992 | 2,230 | 48 | 48 | 1,187 |

| PN 16 EN 1092-1 | | | | | | | | |
|-----------------|-------|----------------|---------|----------------|-------|----|----|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 15 | 84 | 200 (+0/-3) | 112.2 | 11.3 | 65 | 4 | 14 | 168 |
| 20 | 84 | 200 (+0/-3) | 112.2 | 16.9 | 75 | 4 | 14 | 168 |
| 25 | 74 | 200 (+0/-3) | 107.2 | 23.7 | 85 | 4 | 14 | 163 |
| 32 | 83 | 200 (+0/-3) | 111.7 | 31.8 | 100 | 4 | 18 | 167.5 |
| 40 | 88 | 200 (+0/-3) | 114.2 | 37.3 | 110 | 4 | 18 | 170 |
| 50 | 102 | 200 (+0/-3) | 121.2 | 47.3 | 125 | 4 | 18 | 177 |
| 65 | 114 | 200 (+0/-3) | 127.2 | 63.1 | 145 | 4 | 18 | 183 |
| 80 | 127 | 200 (+0/-3) | 133.7 | 74.9 | 160 | 8 | 18 | 189.5 |
| 100 | 161 | 250 (+0/-3) | 150.7 | 97 | 180 | 8 | 18 | 206.5 |
| 125 | 187 | 250 (+0/-3) | 163.7 | 122 | 210 | 8 | 18 | 219.5 |
| 150 | 210 | 300 (+0/-3) | 175.2 | 148 | 240 | 8 | 22 | 231 |
| 200 | 261 | 350 (+0/-3) | 200.7 | 195 | 295 | 12 | 22 | 256.5 |
| 250 | 319 | 450 (+0/-5) | 229.7 | 245 | 350 | 12 | 25 | 285.5 |
| 300 | 371 | 500 (+0/-5) | 255.7 | 308 | 400 | 12 | 25 | 311.5 |
| 350 | 404 | 550 (+0/-5) | 272.2 | 339.6 | 470 | 16 | 25 | 328 |
| 400 | 455 | 600 (+0/-5) | 297.7 | 390.4 | 525 | 16 | 30 | 353.5 |
| 450 | 519 | 450 (+0/-7) | 329.7 | 439 | 585 | 20 | 30 | 385.5 |
| 500 | 570 | 500 (+0/-7) | 355.2 | 490 | 650 | 20 | 33 | 411 |
| 600 | 684 | 600 (+0/-7) | 412.2 | 590 | 770 | 20 | 36 | 468 |
| 700 | 783 | 700 (+0/-7) | 461.7 | 691 | 840 | 24 | 36 | 517.5 |
| 800 | 885 | 800 (+0/-7) | 512.7 | 791 | 950 | 24 | 39 | 568.5 |
| 900 | 996 | 900 (+0/-15) | 568.2 | 888 | 1,050 | 28 | 39 | 624 |
| 1,000 | 1,098 | 1,000 (+0/-15) | 619.2 | 992 | 1,170 | 28 | 42 | 675 |
| 1,200 | 1,312 | 1,200 (+0/-15) | 726.2 | 1,192 | 1,390 | 32 | 48 | 782 |
| 1,400 | 1,512 | 1,400 (+0/-15) | 826.2 | 1,390 | 1,590 | 36 | 48 | 882 |
| 1,500 | 1,612 | 1,500 (+0/-15) | 876.2 | 1,492 | - | - | - | 932 |
| 1,600 | 1,712 | 1,600 (+0/-15) | 926.2 | 1,588 | 1,820 | 40 | 56 | 982 |
| 1,800 | 1,922 | 1,800 (+0/-15) | 1,031.2 | 1,686 | 2,020 | 44 | 56 | 1,087 |
| 2,000 | 2,122 | 2,000 (+0/-15) | 1,131.2 | 1,982 | 2,230 | 48 | 62 | 1,187 |

| PN 25 EN 1092-1 | | | | | | | | |
|-----------------|----|-------------|-------|----------------|-----|---|----|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 15 | 84 | 200 (+0/-3) | 112.2 | 11.3 | 65 | 4 | 14 | 168 |
| 20 | 84 | 200 (+0/-3) | 112.2 | 16.9 | 75 | 4 | 14 | 168 |
| 25 | 74 | 200 (+0/-3) | 107.2 | 23.7 | 85 | 4 | 14 | 163 |
| 32 | 83 | 200 (+0/-3) | 111.7 | 31.8 | 100 | 4 | 18 | 167.5 |
| 40 | 88 | 200 (+0/-3) | 114.2 | 37.3 | 110 | 4 | 18 | 170 |

| PN 25 EN 1092-1 | | | | | | | | |
|-----------------|-------|----------------|---------|----------------|-------|----|----|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 50 | 102 | 200 (+0/-3) | 121.2 | 47.3 | 125 | 4 | 18 | 177 |
| 65 | 114 | 200 (+0/-3) | 127.2 | 63.1 | 145 | 8 | 18 | 183 |
| 80 | 127 | 200 (+0/-3) | 133.7 | 74.9 | 160 | 8 | 18 | 189.5 |
| 100 | 161 | 250 (+0/-3) | 150.7 | 97 | 190 | 8 | 22 | 206.5 |
| 125 | 187 | 250 (+0/-3) | 163.7 | 122 | 220 | 8 | 25 | 219.5 |
| 150 | 210 | 300 (+0/-3) | 175.2 | 148 | 250 | 8 | 25 | 231 |
| 200 | 261 | 350 (+0/-3) | 200.7 | 201 | 310 | 12 | 25 | 256.5 |
| 250 | 319 | 450 (+0/-5) | 229.7 | 255 | 370 | 12 | 30 | 285.5 |
| 300 | 371 | 500 (+0/-5) | 255.7 | 306 | 430 | 16 | 30 | 311.5 |
| 350 | 404 | 550 (+0/-5) | 272.2 | 337.6 | 490 | 16 | 33 | 328 |
| 400 | 455 | 600 (+0/-5) | 297.7 | 386.4 | 550 | 16 | 36 | 353.5 |
| 450 | 519 | 450 (+0/-7) | 329.7 | 437 | 600 | 20 | 36 | 385.5 |
| 500 | 570 | 500 (+0/-7) | 355.2 | 486 | 660 | 20 | 36 | 411 |
| 600 | 684 | 600 (+0/-7) | 412.2 | 586 | 770 | 20 | 39 | 468 |
| 700 | 783 | 700 (+0/-7) | 461.7 | 685 | 875 | 24 | 42 | 517.5 |
| 800 | 885 | 800 (+0/-7) | 512.7 | 785 | 990 | 24 | 48 | 568.5 |
| 900 | 996 | 900 (+0/-15) | 568.2 | 882 | 1,090 | 28 | 48 | 624 |
| 1,000 | 1,098 | 1,000 (+0/-15) | 619.2 | 984 | 1,210 | 28 | 56 | 675 |
| 1,200 | 1,312 | 1,200 (+0/-15) | 726.2 | 1,182 | - | - | - | 782 |
| 1,400 | 1,512 | 1,400 (+0/-15) | 826.2 | 1,380 | - | - | - | 882 |
| 1,500 | 1,612 | 1,500 (+0/-15) | 876.2 | 1,482 | - | - | - | 932 |
| 1,600 | 1,712 | 1,600 (+0/-15) | 926.2 | 1,574 | - | - | - | 982 |
| 1,800 | 1,922 | 1,800 (+0/-15) | 1,031.2 | 1,674 | - | - | - | 1,087 |
| 2,000 | 2,122 | 2,000 (+0/-15) | 1,131.2 | 1,966 | - | - | - | 1,187 |

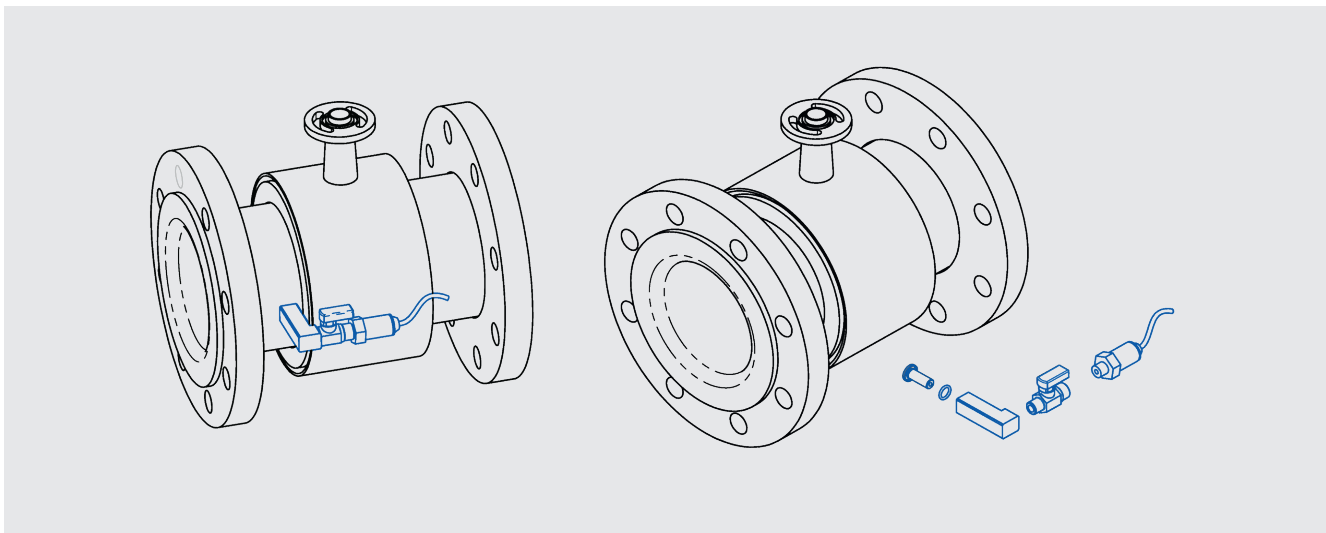
| PN 40 EN 1092-1 | | | | | | | | |
|-----------------|-----|-------------|-------|----------------|-----|----|----|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 15 | 84 | 200 (+0/-3) | 112.2 | 11.3 | 65 | 4 | 14 | 168 |
| 20 | 84 | 200 (+0/-3) | 112.2 | 16.9 | 75 | 4 | 14 | 168 |
| 25 | 74 | 200 (+0/-3) | 107.2 | 23.7 | 85 | 4 | 14 | 163 |
| 32 | 83 | 200 (+0/-3) | 111.7 | 31.8 | 100 | 4 | 18 | 167.5 |
| 40 | 88 | 200 (+0/-3) | 114.2 | 37.3 | 110 | 4 | 18 | 170 |
| 50 | 102 | 200 (+0/-3) | 121.2 | 47.3 | 125 | 4 | 18 | 177 |
| 65 | 114 | 200 (+0/-3) | 127.2 | 63.1 | 145 | 8 | 18 | 183 |
| 80 | 127 | 200 (+0/-3) | 133.7 | 74.9 | 160 | 8 | 18 | 189.5 |
| 100 | 161 | 250 (+0/-3) | 150.7 | 99 | 190 | 8 | 22 | 206.5 |
| 125 | 187 | 250 (+0/-3) | 163.7 | 124 | 220 | 8 | 25 | 219.5 |
| 150 | 210 | 300 (+0/-3) | 175.2 | 152 | 250 | 8 | 25 | 231 |
| 200 | 261 | 350 (+0/-3) | 200.7 | 199 | 320 | 12 | 30 | 256.5 |
| 250 | 319 | 450 (+0/-5) | 229.7 | 251 | 385 | 12 | 33 | 285.5 |
| 300 | 371 | 500 (+0/-5) | 255.7 | 302 | 450 | 16 | 33 | 311.5 |
| 350 | 404 | 550 (+0/-5) | 272.2 | 333.6 | 510 | 16 | 36 | 328 |
| 400 | 455 | 600 (+0/-5) | 297.7 | 382.4 | 585 | 16 | 39 | 353.5 |
| 450 | 519 | 450 (+0/-7) | 329.7 | 431 | 610 | 20 | 39 | 385.5 |
| 500 | 570 | 500 (+0/-7) | 355.2 | 480 | 670 | 20 | 42 | 411 |
| 600 | 684 | 600 (+0/-7) | 412.2 | 578 | 795 | 20 | 48 | 468 |

| PN 40 EN 1092-1 | | | | | | | | |
|-----------------|-------|----------------|---------|----------------|-----|----|----|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 700 | 783 | 700 (+0/-7) | 461.7 | 677 | 900 | 24 | 48 | 517.5 |
| 800 | 885 | 800 (+0/-7) | 512.7 | 775 | - | - | - | 568.5 |
| 900 | 996 | 900 (+0/-15) | 568.2 | 870 | - | - | - | 624 |
| 1,000 | 1,098 | 1,000 (+0/-15) | 619.2 | 970 | - | - | - | 675 |
| 1,200 | 1,312 | 1,200 (+0/-15) | 726.2 | 1,166 | - | - | - | 782 |
| 1,400 | 1,512 | 1,400 (+0/-15) | 826.2 | 1,362 | - | - | - | 882 |
| 1,500 | 1,612 | 1,500 (+0/-15) | 876.2 | 1,462 | - | - | - | 932 |
| 1,600 | 1,712 | 1,600 (+0/-15) | 926.2 | 1,554 | - | - | - | 982 |
| 1,800 | 1,922 | 1,800 (+0/-15) | 1,031.2 | 1,650 | - | - | - | 1,087 |
| 2,000 | 2,122 | 2,000 (+0/-15) | 1,131.2 | 1,942 | - | - | - | 1,187 |

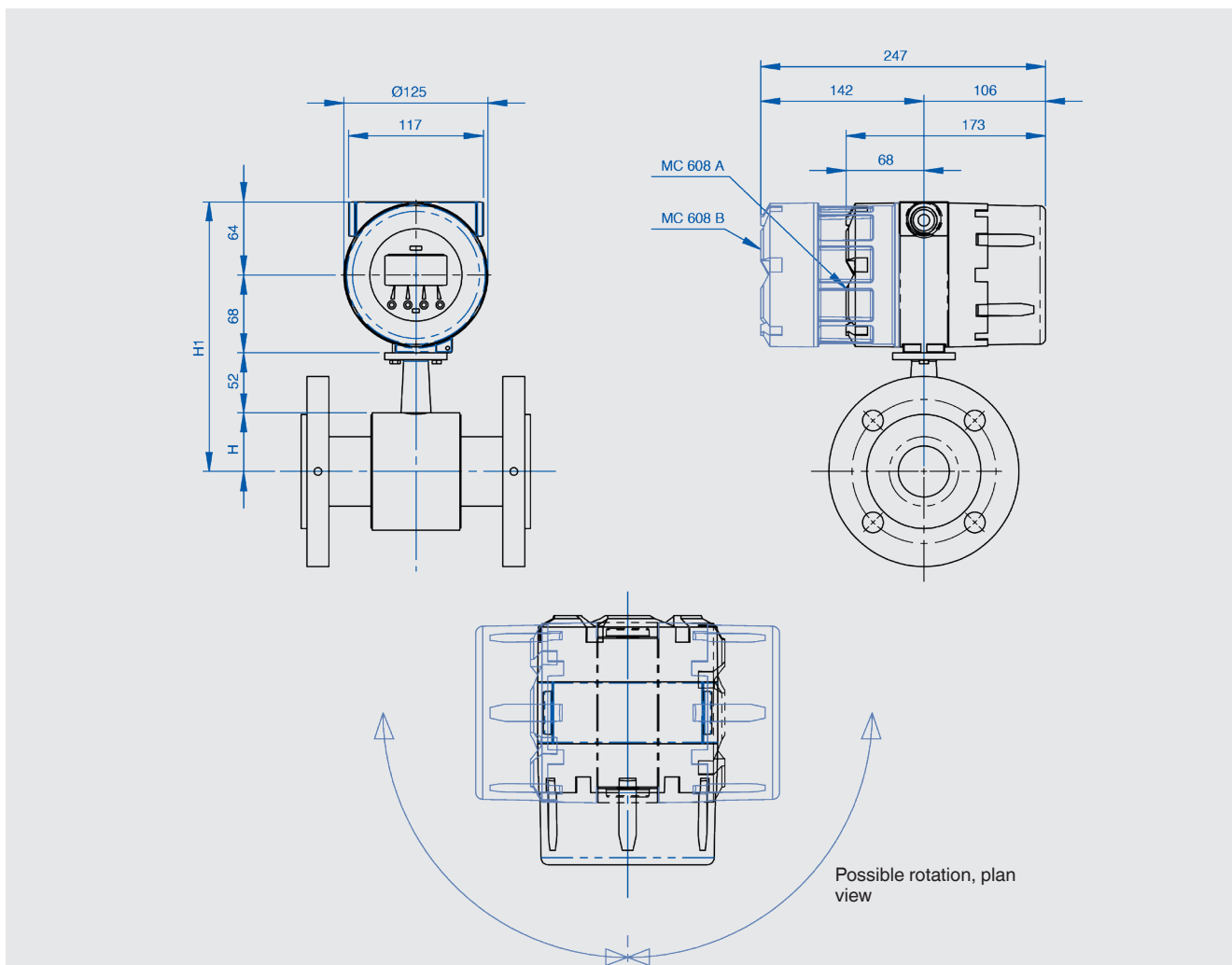
| ANSI 150 | | | | | | | | |
|----------|-------|----------------|---------|----------------|---------|----|------|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 0.5" | 84 | 200 (+0/-3) | 112.2 | 11.3 | 60.3 | 4 | 16 | 168 |
| 0.75" | 84 | 200 (+0/-3) | 112.2 | 16.9 | 69.8 | 4 | 16 | 168 |
| 1" | 74 | 200 (+0/-3) | 107.2 | 23.7 | 79.4 | 4 | 15.9 | 163 |
| 1.25" | 83 | 200 (+0/-3) | 111.7 | 31.8 | 88.9 | 4 | 15.9 | 167.5 |
| 1.5" | 88 | 200 (+0/-3) | 114.2 | 37.3 | 98.4 | 4 | 15.9 | 170 |
| 2" | 102 | 200 (+0/-3) | 121.2 | 47.3 | 120.6 | 4 | 19 | 177 |
| 2.5" | 114 | 200 (+0/-3) | 127.2 | 63.1 | 139.7 | 4 | 19 | 183 |
| 3" | 127 | 200 (+0/-3) | 133.7 | 74.9 | 152.4 | 4 | 19 | 189.5 |
| 4" | 161 | 250 (+0/-3) | 150.7 | 97 | 190.5 | 8 | 19 | 206.5 |
| 5" | 187 | 250 (+0/-3) | 163.7 | 122 | 215.9 | 8 | 22.2 | 219.5 |
| 6" | 210 | 300 (+0/-3) | 175.2 | 148 | 241.3 | 8 | 22.2 | 231 |
| 8" | 261 | 350 (+0/-3) | 200.7 | 195 | 298.4 | 8 | 22.2 | 256.5 |
| 10" | 319 | 450 (+0/-5) | 229.7 | 245 | 361.9 | 12 | 25.4 | 285.5 |
| 12" | 371 | 500 (+0/-5) | 255.7 | 308 | 431.8 | 12 | 25.5 | 311.5 |
| 14" | 404 | 550 (+0/-5) | 272.2 | 337.6 | 476.2 | 12 | 28.6 | 328 |
| 16" | 455 | 600 (+0/-5) | 297.7 | 388.4 | 539.7 | 16 | 28.6 | 353.5 |
| 18" | 519 | 450 (+0/-7) | 329.7 | 437 | 577.6 | 16 | 31.7 | 385.5 |
| 20" | 570 | 500 (+0/-7) | 355.2 | 488 | 635 | 20 | 31.7 | 411 |
| 24" | 684 | 600 (+0/-7) | 412.2 | 588 | 749.3 | 20 | 34.9 | 468 |
| 28" | 783 | 700 (+0/-7) | 461.7 | 687 | 863.6 | 28 | 35 | 517.5 |
| 32" | 885 | 800 (+0/-7) | 512.7 | 787 | 977.9 | 28 | 41 | 568.5 |
| 36" | 996 | 900 (+0/-15) | 568.2 | 886 | 1,085.9 | 32 | 41 | 624 |
| 40" | 1,098 | 1,000 (+0/-15) | 619.2 | 988 | 1,200 | 36 | 41 | 675 |
| 48" | 1,312 | 1,200 (+0/-15) | 726.2 | 1,188 | 1,422.4 | 44 | 41 | 782 |
| 56" | 1,512 | 1,400 (+0/-15) | 826.2 | 1,384 | 1,651 | 48 | 47.8 | 882 |
| 60" | 1,612 | 1,500 (+0/-15) | 876.2 | 1,484 | 1,760 | 52 | 47.8 | 932 |
| 64" | 1,712 | 1,600 (+0/-15) | 926.2 | 1,580 | - | - | - | 982 |
| 72" | 1,922 | 1,800 (+0/-15) | 1,031.2 | 1,678 | - | - | - | 1,087 |
| 80" | 2,122 | 2,000 (+0/-15) | 1,131.2 | 1,974 | - | - | - | 1,187 |

| ANSI 300 | | | | | | | | |
|----------|-------|----------------|---------|----------------|---------|----|------|-------|
| DN | D5 | L4 | J | D _i | D6 | N | S | H |
| 0.5" | 84 | 200 (+0/-3) | 112.2 | 11.3 | 66.7 | 4 | 16 | 168 |
| 0.75" | 84 | 200 (+0/-3) | 112.2 | 16.9 | 82.5 | 4 | 19 | 168 |
| 1" | 74 | 200 (+0/-3) | 107.2 | 23.7 | 88.9 | 4 | 19 | 163 |
| 1.25" | 83 | 200 (+0/-3) | 111.7 | 31.8 | 98.4 | 4 | 19 | 167.5 |
| 1.5" | 88 | 200 (+0/-3) | 114.2 | 37.3 | 114.3 | 4 | 22.2 | 170 |
| 2" | 102 | 200 (+0/-3) | 121.2 | 47.3 | 127 | 8 | 19 | 177 |
| 2.5" | 114 | 200 (+0/-3) | 127.2 | 63.1 | 149.2 | 8 | 22.2 | 183 |
| 3" | 127 | 200 (+0/-3) | 133.7 | 74.9 | 168.3 | 8 | 22.2 | 189.5 |
| 4" | 161 | 250 (+0/-3) | 150.7 | 105 | 200 | 8 | 22.2 | 206.5 |
| 5" | 187 | 250 (+0/-3) | 163.7 | 122 | 234.9 | 8 | 22.2 | 219.5 |
| 6" | 210 | 300 (+0/-3) | 175.2 | 150 | 269.9 | 12 | 22.2 | 231 |
| 8" | 261 | 350 (+0/-3) | 200.7 | 197 | 330.2 | 12 | 25.4 | 256.5 |
| 10" | 319 | 450 (+0/-5) | 229.7 | 249 | 387.3 | 16 | 28.6 | 285.5 |
| 12" | 371 | 500 (+0/-5) | 255.7 | 300 | 450.8 | 16 | 31.7 | 311.5 |
| 14" | 404 | 550 (+0/-5) | 272.2 | 329.6 | 514.3 | 20 | 31.7 | 328 |
| 16" | 455 | 600 (+0/-5) | 297.7 | 378.4 | 571.5 | 20 | 34.9 | 353.5 |
| 18" | 519 | 450 (+0/-7) | 329.7 | 427 | 628.6 | 24 | 34.9 | 385.5 |
| 20" | 570 | 500 (+0/-7) | 355.2 | 476 | 685.8 | 24 | 34.9 | 411 |
| 24" | 684 | 600 (+0/-7) | 412.2 | 572 | 812.8 | 24 | 41.3 | 468 |
| 28" | 783 | 700 (+0/-7) | 461.7 | 671 | 939.8 | 28 | 44.5 | 517.5 |
| 32" | 885 | 800 (+0/-7) | 512.7 | 767 | 1,054.1 | 28 | 50.8 | 568.5 |
| 36" | 996 | 900 (+0/-15) | 568.2 | 862 | 1,168.4 | 32 | 53.8 | 624 |
| 40" | 1,098 | 1,000 (+0/-15) | 619.2 | 962 | 1,155.7 | 32 | 44.5 | 675 |
| 48" | 1,312 | 1,200 (+0/-15) | 726.2 | 1,160 | 1,371.6 | 32 | 50.8 | 782 |
| 56" | 1,512 | 1,400 (+0/-15) | 826.2 | 1,350 | 1,600.2 | 28 | 60.5 | 882 |
| 60" | 1,612 | 1,500 (+0/-15) | 876.2 | 1,450 | 1,701.8 | 32 | 60.5 | 932 |
| 64" | 1,712 | 1,600 (+0/-15) | 926.2 | 1,542 | - | - | - | 982 |
| 72" | 1,922 | 1,800 (+0/-15) | 1,031.2 | 1,638 | - | - | - | 1,087 |
| 80" | 2,122 | 2,000 (+0/-15) | 1,131.2 | 1,926 | - | - | - | 1,187 |

Integrated pressure port on request



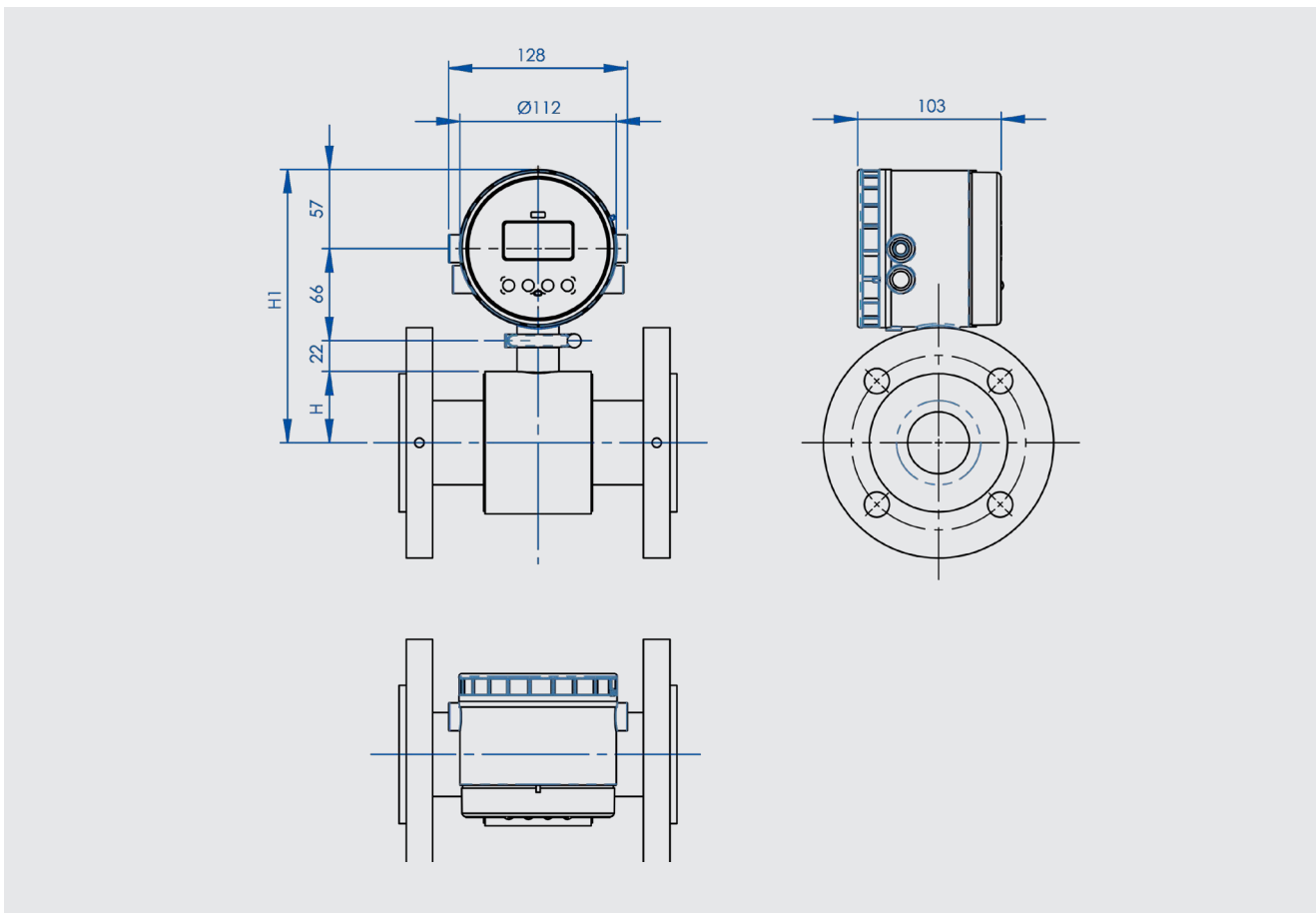
Compact version: Model FLC-2200EL in combination with signal converter, model FLC-608 A/B/R (B/R max. DN 600)



| Model FLC-608 A/B/R | | |
|---------------------|-----|-----|
| DN | H | H1 |
| 25 | 37 | 220 |
| 32 | 42 | 225 |
| 40 | 44 | 227 |
| 50 | 51 | 234 |
| 65 | 57 | 240 |
| 80 | 64 | 247 |
| 100 | 81 | 264 |
| 125 | 94 | 277 |
| 150 | 105 | 288 |
| 200 | 131 | 314 |
| 250 | 160 | 343 |
| 300 | 186 | 369 |
| 350 | 202 | 385 |

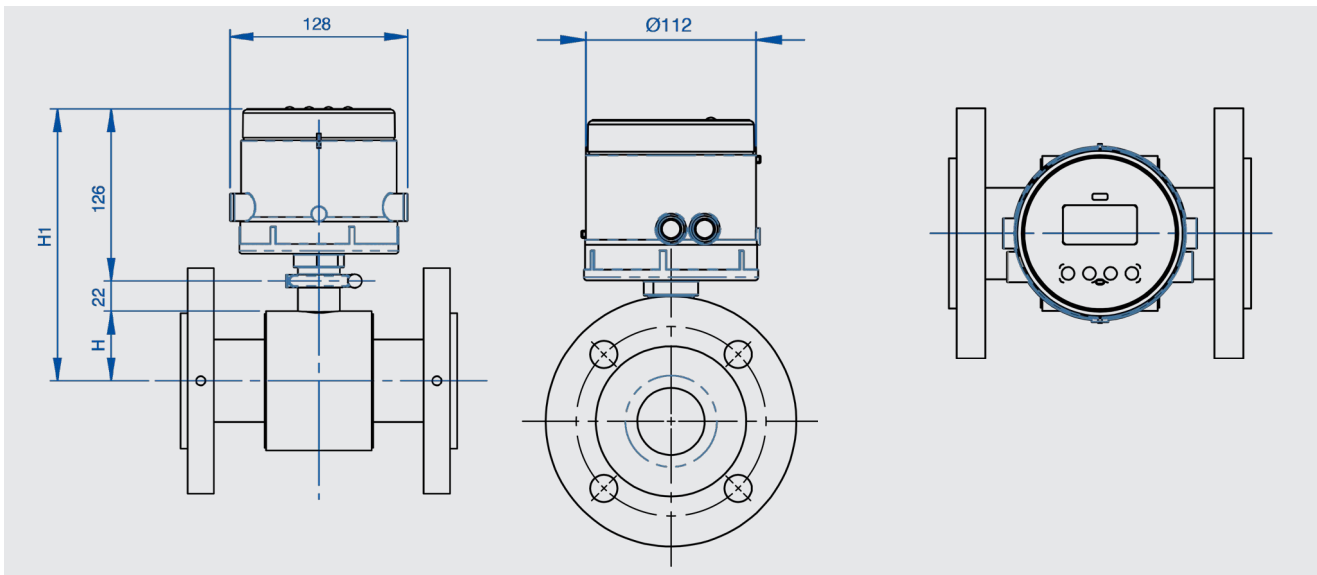
| Model FLC-608 A/B/R | | |
|---------------------|-----|-------|
| DN | H | H1 |
| 450 | 260 | 443 |
| 500 | 285 | 468 |
| 600 | 342 | 525 |
| 700 | 392 | 575 |
| 750 | 417 | 600 |
| 800 | 443 | 626 |
| 900 | 498 | 681 |
| 1,000 | 549 | 732 |
| 1,200 | 656 | 839 |
| 1,400 | 756 | 939 |
| 1,500 | 806 | 989 |
| 1,600 | 856 | 1,039 |
| 1,800 | 961 | 1,144 |

Compact version: Model FLC-2200EL in combination with signal converter, model FLC-406, radial mount (max. DN 600)






| Model FLC-406, radial mount | | |
|-----------------------------|-----|-----|
| DN | H | H1 |
| 25 | 37 | 182 |
| 32 | 42 | 186 |
| 40 | 44 | 189 |
| 50 | 51 | 196 |
| 65 | 57 | 202 |
| 80 | 64 | 208 |
| 100 | 81 | 225 |
| 125 | 94 | 238 |
| 150 | 105 | 250 |
| 200 | 131 | 275 |
| 250 | 160 | 304 |
| 300 | 186 | 330 |
| 350 | 202 | 347 |
| 400 | 228 | 372 |
| 450 | 260 | 404 |
| 500 | 285 | 430 |
| 600 | 342 | 487 |

Compact version: Model FLC-2200EL in combination with signal converter, model FLC-406, back mount (max. DN 600)



| Model FLC-406, back mount | | |
|---------------------------|-----|-----|
| DN | H | H1 |
| 25 | 37 | 185 |
| 32 | 42 | 190 |
| 40 | 44 | 192 |
| 50 | 51 | 199 |
| 65 | 57 | 205 |
| 80 | 64 | 212 |
| 100 | 81 | 229 |
| 125 | 94 | 242 |
| 150 | 105 | 253 |
| 200 | 131 | 279 |
| 250 | 160 | 308 |
| 300 | 186 | 334 |
| 350 | 202 | 350 |
| 400 | 228 | 376 |
| 450 | 260 | 408 |
| 500 | 285 | 433 |
| 600 | 342 | 490 |

Approvals

| Logo | Description | Country |
|---|---|----------------|
|  | EU declaration of conformity | European Union |
| | EMC directive EN 61326 emission (group 1, class B) and immunity (industrial application) | |
| | Low voltage directive | |
|  | ATEX directive (option for separated version) | |
|  | IECEx (option for separated version) | International |
| Custody transfer | | |
| - | International Organization for Legal Metrology (OIML) | International |
| - | Measuring instrument directive (MID) | European Union |

Approvals and certificates, see website

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