

# SDG207



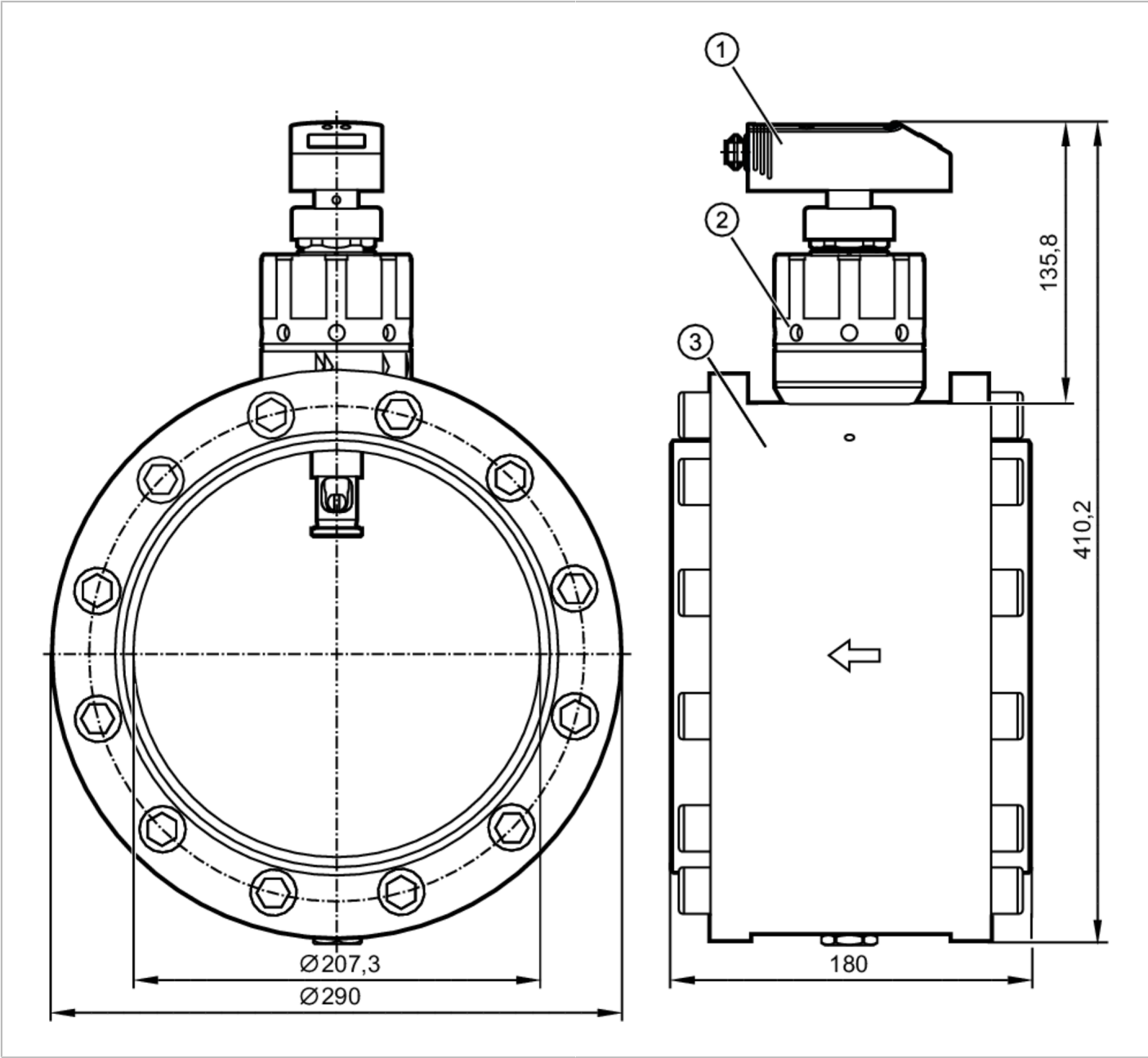
## Compressed air meter

SDG8"/METRIS PB DN200 SS LM

Article to be discontinued

Alternative articles: SDG850  
When selecting an alternative article and accessories please note that technical data may differ!

please note that sensors with a production date before 2010 have a modified pitch circle



| Product characteristics      |                                                           |
|------------------------------|-----------------------------------------------------------|
| Number of inputs and outputs | Number of digital outputs: 2; Number of analog outputs: 1 |
| Measuring range [m³/h]       | 58...17500                                                |
| Process connection           | flange DN200 according to:DIN EN 10220                    |



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| Application                                          |                                                                           |
|------------------------------------------------------|---------------------------------------------------------------------------|
| Application                                          | Totalizer function                                                        |
| Media                                                | compressed air                                                            |
| Note on media                                        | air quality ISO 8573-1                                                    |
|                                                      | class 141                                                                 |
|                                                      | class 344                                                                 |
| Medium temperature [°C]                              | 0...60                                                                    |
| Pressure rating [bar]                                | 16                                                                        |
| Pressure rating [MPa]                                | 1.6                                                                       |
| Electrical data                                      |                                                                           |
| Operating voltage [V]                                | 19...30 DC                                                                |
| Current consumption [mA]                             | < 100                                                                     |
| Protection class                                     | III                                                                       |
| Reverse polarity protection                          | yes                                                                       |
| Power-on delay time [s]                              | 0.5                                                                       |
| Inputs / outputs                                     |                                                                           |
| Number of inputs and outputs                         | Number of digital outputs: 2; Number of analog outputs: 1                 |
| Outputs                                              |                                                                           |
| Total number of outputs                              | 2                                                                         |
| Output signal                                        | switching signal; analog signal; pulse signal; (configurable)             |
| Electrical design                                    | PNP                                                                       |
| Number of digital outputs                            | 2                                                                         |
| Output function                                      | normally open / closed; (configurable)                                    |
| Max. voltage drop switching output DC [V]            | 2                                                                         |
| Permanent current rating of switching output DC [mA] | 250; (per output)                                                         |
| Number of analog outputs                             | 1                                                                         |
| Analog current output [mA]                           | 4...20; (scalable)                                                        |
| Max. load [Ω]                                        | 500                                                                       |
| Pulse output                                         | consumed quantity meter                                                   |
| Short-circuit protection                             | yes                                                                       |
| Type of short-circuit protection                     | yes (non-latching)                                                        |
| Overload protection                                  | yes                                                                       |
| Measuring/setting range                              |                                                                           |
| Measuring range [m³/h]                               | 58...17500                                                                |
| Display range [m³/h]                                 | 0...21000                                                                 |
| Volumetric flow quantity monitoring                  |                                                                           |
| Pulse value                                          | 10 Nm³                                                                    |
| Pulse length [s]                                     | 0,1                                                                       |
| Accuracy / deviations                                |                                                                           |
| Flow monitoring                                      |                                                                           |
| Accuracy (in the measuring range)                    | ± (3 % MW + 0,3 % MEW) / ± (6 % MW + 0,6 % MEW); (class 141 /; class 344) |



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| Reaction times                                                                                 |                                                                                                                                                                       |                    |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Flow monitoring                                                                                |                                                                                                                                                                       |                    |
| Response time                                                                                  | [s]                                                                                                                                                                   | 0.1; (dAP = 0)     |
| Operating conditions                                                                           |                                                                                                                                                                       |                    |
| Ambient temperature                                                                            | [°C]                                                                                                                                                                  | 0...60             |
| Storage temperature                                                                            | [°C]                                                                                                                                                                  | -20...85           |
| Max. relative air humidity                                                                     | [%]                                                                                                                                                                   | 90                 |
| Protection                                                                                     |                                                                                                                                                                       | IP 65              |
| Tests / approvals                                                                              |                                                                                                                                                                       |                    |
| EMC                                                                                            | EN 61000-4-2 ESD                                                                                                                                                      | 4 kV CD / 8 kV AD  |
|                                                                                                | EN 61000-4-3 HF radiated                                                                                                                                              | 10 V/m             |
|                                                                                                | EN 61000-4-4 Burst                                                                                                                                                    | 2 kV               |
|                                                                                                | EN 61000-4-6 HF conducted                                                                                                                                             | 10 V               |
| Vibration resistance                                                                           | DIN IEC 68-2-6                                                                                                                                                        | 5 g (55...2000 Hz) |
| MTTF                                                                                           | [years]                                                                                                                                                               | 214                |
| Mechanical data                                                                                |                                                                                                                                                                       |                    |
| Weight                                                                                         | [g]                                                                                                                                                                   | 41441              |
| Material                                                                                       | PBT-GF20; PC; PC; stainless steel (1.4301 / 304);<br>FKM; Pipe section: stainless steel (1.4301 / 304)                                                                |                    |
| Materials (wetted parts)                                                                       | stainless steel (1.4401 / 316); stainless steel (1.4301 / 304); ceramics glass<br>passivated; PEEK; polyester; FKM; aluminum anodized; stainless steel (1.4301 / 304) |                    |
| Process connection                                                                             | flange DN200 according to:DIN EN 10220                                                                                                                                |                    |
| Remarks                                                                                        |                                                                                                                                                                       |                    |
| Remarks                                                                                        | MW = Measured value                                                                                                                                                   |                    |
|                                                                                                | MEW = Final value of the measuring range                                                                                                                              |                    |
|                                                                                                | Measuring, display and setting ranges refer to<br>standard volume flow according to DIN ISO 2533.                                                                     |                    |
|                                                                                                | For information about installation and operation please see the operating instructions.                                                                               |                    |
| Pack quantity                                                                                  | 1 pcs.                                                                                                                                                                |                    |
| Electrical connection                                                                          |                                                                                                                                                                       |                    |
| Connector: 1 x M12; coding: A                                                                  |                                                                                                                                                                       |                    |
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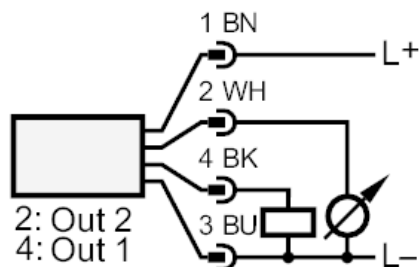
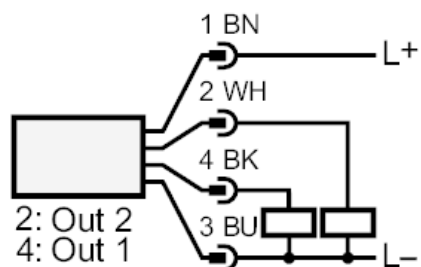




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### Connection



|       |                                                          |
|-------|----------------------------------------------------------|
| OUT1: | Switching output<br>Pulse output quantity meter          |
| OUT2: | Switching output<br>Input counter reset<br>analog output |