

# SDG070

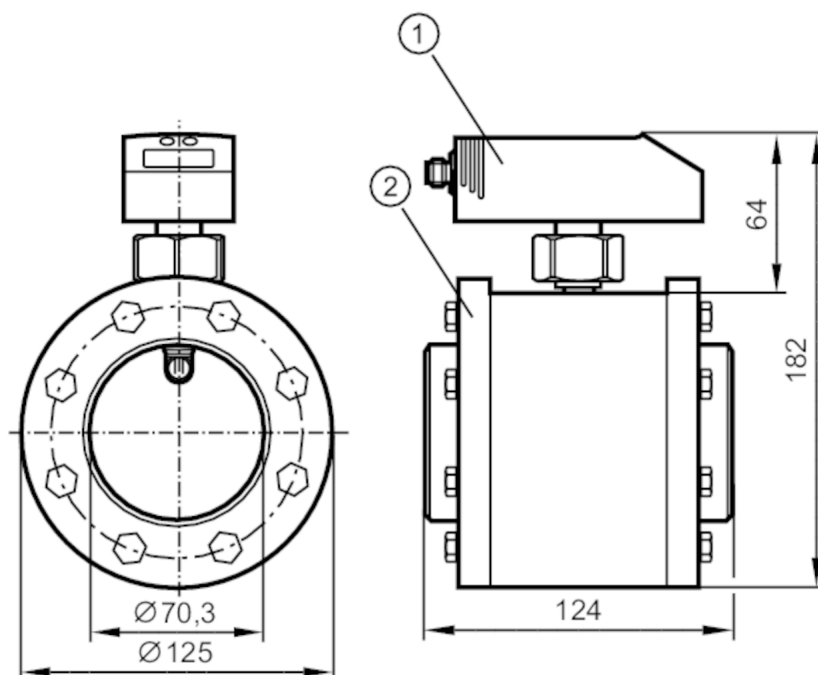


## Compressed air meter

SDG2 1/2"METRIS PB DN65 SS

Article to be discontinued  
Discontinuation date: 12/31/2024

Alternative articles: SDG350  
When selecting an alternative article and accessories please note that technical data may differ!



- 1 Flow sensor
- 2 Pipe section



### Product characteristics

|                                     |                                                           |  |
|-------------------------------------|-----------------------------------------------------------|--|
| Number of inputs and outputs        | Number of digital outputs: 2; Number of analog outputs: 1 |  |
| Measuring range [m <sup>3</sup> /h] | 6.7...2000                                                |  |
| Process connection                  | flange DN65 according to: DIN EN 10220                    |  |

### 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         | 16 bar                 | 1.6 MPa |

### Electrical data

|                             |            |  |
|-----------------------------|------------|--|
| Operating voltage [V]       | 19...30 DC |  |
| Current consumption [mA]    | < 100      |  |
| Protection class            | III        |  |
| Reverse polarity protection | yes        |  |



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|                                                 |                           |                                                                           |
|-------------------------------------------------|---------------------------|---------------------------------------------------------------------------|
| Power-on delay time                             | [s]                       | 0.5                                                                       |
| <b>Inputs / outputs</b>                         |                           |                                                                           |
| Number of inputs and outputs                    |                           | Number of digital outputs: 2; Number of analog outputs: 1                 |
| <b>Outputs</b>                                  |                           |                                                                           |
| 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                                                                       |
| <b>Measuring/setting range</b>                  |                           |                                                                           |
| Measuring range                                 | [m³/h]                    | 6.7...2000                                                                |
| Display range                                   | [m³/h]                    | 0...2400                                                                  |
| <b>Volumetric flow quantity monitoring</b>      |                           |                                                                           |
| Pulse value                                     |                           | 1 Nm³                                                                     |
| Pulse length                                    | [s]                       | 0,1                                                                       |
| <b>Accuracy / deviations</b>                    |                           |                                                                           |
| <b>Flow monitoring</b>                          |                           |                                                                           |
| Accuracy (in the measuring range)               |                           | ± (3 % MW + 0,3 % MEW) / ± (6 % MW + 0,6 % MEW); (class 141 /; class 344) |
| <b>Reaction times</b>                           |                           |                                                                           |
| <b>Flow monitoring</b>                          |                           |                                                                           |
| Response time                                   | [s]                       | 0.1; (dAP = 0)                                                            |
| <b>Operating conditions</b>                     |                           |                                                                           |
| Ambient temperature                             | [°C]                      | 0...60                                                                    |
| Storage temperature                             | [°C]                      | -20...85                                                                  |
| Max. relative air humidity                      | [%]                       | 90                                                                        |
| Protection                                      |                           | IP 65                                                                     |
| <b>Tests / approvals</b>                        |                           |                                                                           |
| 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)                                                        |

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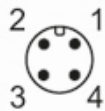
|      |         |     |
|------|---------|-----|
| MTTF | [years] | 214 |
|------|---------|-----|

| Mechanical data          |      |                                                                                                                                                                                  |
|--------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                   | [g]  | 9616                                                                                                                                                                             |
| Housing                  |      | rectangular                                                                                                                                                                      |
| Dimensions               | [mm] | 124 x 125 x 182                                                                                                                                                                  |
| Material                 |      | PBT-GF20; PC; PC; stainless steel (1.4301 / 304); FKM; Pipe section: steel galvanized                                                                                            |
| Materials (wetted parts) |      | stainless steel (1.4401 / 316); stainless steel (1.4301 / 304); ceramics glass passivated; PEEK; polyester; FKM; aluminum anodized; Pipe section: stainless steel (1.4301 / 304) |
| Process connection       |      | flange DN65 according to:DIN EN 10220                                                                                                                                            |

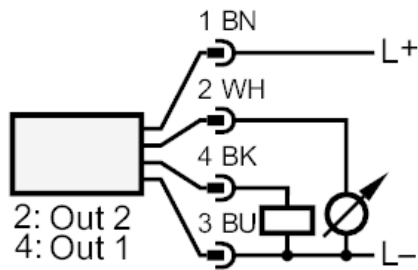
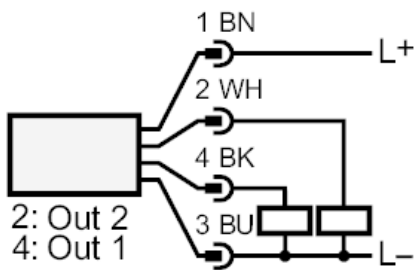
| Remarks       |                                                                                                |
|---------------|------------------------------------------------------------------------------------------------|
| Remarks       | MW = Measured value                                                                            |
|               | MEW = Final value of the measuring range                                                       |
|               | Measuring, display and setting ranges refer to 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



Connection



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