



Inline positive displacement flowmeter or batch controller

- Display for indication of flow rate and volume with two totalizers or dosing
- Automatic calibration using Teach-In
- Inputs (with batch controller) and all outputs can be checked without the need for actual flow
- Total and day counters for batch quantity and number of dosing, volume or mass counter indicator (with batch controller)



Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with



Type 8611
eCONTROL - Universal controller ▶



Type 8619
multiCELL - Multi-channel and multi-function transmitter/controller ▶



Type 8802
ELEMENT continuous control valve systems - overview ▶



Type 8644
Remote Process Actuation Control System AirLINE ▶

Type description

This positive displacement flowmeter or batch controller with display is designed for use with highly viscous fluid like glue, honey.

The device Type SE35 + S077 is made up of a compact sensor-fitting with oval rotors (S077) and a transmitter (SE35) quickly and easily connected together by a bayonet catch without having to open the pipeline. The Bürkert designed sensor-fitting system ensures simple installation of the device into all pipelines from DN 15...DN 100.

The flowmeter is specially designed to switch a valve and to establish a monitoring system or an On/Off control loop. The batch controller is designed to carry out a dosing of one or several quantities of liquids, when mounted in series in a pipe with one or two valves.

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1. General technical data

1.1. General data

Note:

The following data are valid for both the Inline flowmeter and the Inline batch controller.

Product properties

Material

Please make sure the device materials are compatible with the fluid you are using.

Detailed information can be found in chapter **"3.1. Chemical Resistance Chart – Bürkert resistApp"** on page 7.

Non wetted parts

Housing, cover	PC
Lid	PC
Front panel foil	Polyester
Screws	Stainless steel
Female cable plug/male fixed plug	- Body, contact holder and cable gland in PA - Cable gland seal and flat seal in NBR
Cable glands	PA
Quarter turn system	PC

Wetted parts

Sensor-fitting body	Aluminium or stainless steel (316L)
Seal	FKM or FEP/PTFE encapsulated
Oval gear	PPS, aluminium or stainless steel (316L)
Shaft	Stainless steel (316L)

Dimensions Detailed information can be found in chapter **"4. Dimensions"** on page 9.

Measuring principle Oval gear

Compatibility Any pipe from DN 15...DN 100 which is fitted with Bürkert S077 Inline sensor-fitting. For the selection of the nominal diameter of the Inline sensor-fittings, see **data sheet Type S077** ►.

Display 15 × 60 mm, 8-digit LCD, alphanumeric, 15 segments, 9 mm high

Pipe diameter DN 15...DN 100

Measuring range

- Viscosity > 5 mPa.s: 2...1200 l/min (0.53...320 gpm)
- Viscosity < 5 mPa.s: 3...616 l/min (0.78...320 gpm)

Performance data

Measurement deviation

- With K-factor determined with a teach-in procedure or with the specific K-factor, engraved on the sensor-fitting: ± 0.5 % of the measured value (at Teach-In flow rate value)
- With standard K-factor: ± 1 % of the measured value

Repeatability ± 0.03 % of the measured value¹⁾

Electrical data

Power source (not supplied) Limited power source according to UL/EN 60950-1 standards or limited energy circuit according to UL/EN 61010-1 §9.4

Protection against DC polarity reversal Yes

Overvoltage protection Yes

Voltage supply cable

- Cable with maximum operating temperature greater than 80 °C (90 °C for UL-Recognized version)
- Max. 50 m length, shielded

Medium data

Fluid temperature With sensor-fitting S077 in:

- Aluminium: -20...+80 °C (-4...+176 °F)
- Stainless steel: -20...+120 °C (-4...+248 °F)

See **data sheet Type S077** ► for more information.

Fluid pressure (max.) With sensor-fitting S077 with:

- DN 15: 55 bar (798.05 PSI) (threaded process connection)
- DN 25: 55 bar (798.05 PSI)¹⁾
- DN 40 or DN 50: 18 bar (261.18 PSI)
- DN 80: 12 bar (174.12 PSI)
- DN 100: 10 bar (145.1 PSI)

See **data sheet Type S077** ► for more information.

Viscosity	Max. 1 Pa.s (higher on request)
Rate of solid particles	0 %

Process/Port connection & communication

Process connection	- Thread: ½"; 1"; 1½"; 2"; 3" (G or NPT) - Flange: 25; 40; 50; 80 or 100 mm DIN PN 16 flange 1"; 1½"; 2"; 3" or 4" ANSI 150LB flange
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See **data sheet Type S077** ► for more information.

Approvals and Certificates

Standards

Degree of protection ^{2.)} according to IEC/EN 60529	IP65 with device wired and plugs mounted and tightened
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Directives

CE directives	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable)
Pressure equipment directives	Complying with Article 4, Paragraph 1 of 2014/68/EU directive Detailed information on the pressure equipment directive can be found in chapter "2.2. Pressure Equipment Directive" on page 7.
Certification	UL-Recognized for US and Canada

Environment and installation

Relative air humidity	≤ 80 %, without condensation
Height above sea level	Max. 2000 m
Operating condition	Continuous
Equipment mobility	Fixed
Application range	Indoor and outdoor (protect the device against electromagnetic interference, ultraviolet rays and against the effects of climatic conditions)
Installation category	Category I according to UL/EN 61010-1
Pollution degree	Degree 2 according to UL/EN 61010-1

1.) Or in accordance to the value of the used flanges.

2.) Not evaluated by UL

1.2. Inline flowmeter

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is **35 V DC** instead of 36 V DC.

Performance data	
4...20 mA output uncertainty	± 1 % of range
Electrical data	
Operating voltage (V+)	12...36 V DC ± 10 %, filtered and regulated - Connection to main supply: permanent (through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply) 115/230 V AC 50/60 Hz - Voltage supply available inside the device: - supplied voltage: 27 V DC regulated - maximum current: 125 mA - integrated protection: 125 mA time delay fuse
Current consumption	12...36 V DC powered measuring device with a standard output signal, with sensor and without pulse output consumption - With relays: ≤ 70 mA - Without relay: ≤ 25 mA :
Power consumption	115/230 V AC powered measuring device: 3 VA
Outputs	- Pulse (potential free transistor): - polarized, NPN or PNP (wiring dependant) - function: pulse output, adjustable pulse value 0...400 Hz 5...36 V DC, 100 mA, voltage drop at 100 mA: 2.5 V DC - duty cycle (pulse duration/period): 0.5 - galvanic insulation and protected against overvoltage, polarity reversals and short circuit - Relay: 2 relays, hysteresis, adjustable thresholds, normally open - non UL recognized device: 230 V AC/3 A or 40 V DC/3 A (resistive load) - UL recognized device: 30 V AC/42 V_{peak}/3 A or 60 V DC/1 A - Current: 4...20 mA (3-wire with relays; 2-wire without relay) - sourcing or sinking (wiring dependant) - max. loop impedance: 900 Ω at 30 V DC, 600 Ω at 24 V DC, 50 Ω at 12 V DC, 800 Ω with a 115/230 V AC voltage supply - response time (10...90 %) for the measured value: 6 s (default))
Voltage supply cable	- External diameter (cable): 5...8 mm (with cable plug) 6...12 mm (1 cable per cable gland) or 3...5 mm when using a multi-way seal (2 cables per cable gland) - Cross section of wires: 0.25...1.5 mm² (with cable plug) 0.75 mm² (with cable gland) - Cross section the local ground wire: max. 0.75 mm²
Process/Port connection & communication	
Electrical connection	Cable plug or cable glands M20 × 1.5
Environment and installation	
Ambient temperature	Operation and storage: - Version 12...36 V DC: 0...+60 °C (+32...+140 °F) - Version 115/230 V AC: 0...+50 °C (+32...+122 °F)

1.3. Inline batch controller

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is **35 V DC** instead of 36 V DC.

Electrical data	
Operating voltage (V+)	12...36 V DC, max tolerance: -5 % or +10 % at 12 V DC, $\pm 10\%$ at 36 V DC, filtered and regulated - Connection to main supply: permanent (through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply) 115/230 V AC 50/60 Hz - Voltage supply available inside the device: - supplied voltage: 27 V DC regulated - maximum current: 125 mA - integrated protection: 125 mA time delay fuse
Current consumption	With sensor, without consumption of digital input and pulse output - With relays: ≤ 100 mA (at 12 V DC) ≤ 50 mA (at 36 V DC) ≤ 55 mA (115/230 V AC) - Without relay: ≤ 70 mA (at 12 V DC) ≤ 35 mA (at 36 V DC) ≤ 40 mA (115/230 V AC)
Power consumption	115/230 V AC powered measuring device: 3 VA
Inputs	- DI (1 to 4) - Switching threshold V_{on}: 5...36 V DC - Switching threshold V_{off} max.: 2 V DC - Min. pulse duration: 100 ms - Input impedance: 9.4 KOhms - Galvanic insulation, protected against polarity reversals and voltage spike
Outputs	- Transistors (DO1 and DO4): - NPN or PNP (wiring dependant), potential-free - function: pulse output (by default for DO1), batch state (by default for DO4), configurable and parametrisable 0...300 Hz 5...36 V DC, 100 mA max., voltage drop at 100 mA: 2.7 V DC - duty cycle (pulse duration/period): > 0.45 - galvanic insulation, protected against overvoltage, polarity reversals and short-circuits - Relays (DO2 and DO3): 2 relays (normally open), parametrisable (by default: DO2 always configured to control the valve, parametrized of 100 % of the batch quantity and DO3 configured as alarm) - non UL recognized device: 230 V AC/3 A or 40 V DC/3 A (resistive load) - UL recognized device: 30 V AC/42 V_{peak}/3 A or 60 V DC/1 A - max. cutting power of 750 VA (resistive load)
Voltage supply cable	- External diameter (cable): 6...12 mm (1 cable per cable gland) or 4 mm when using a multi-way seal (2 cables per cable gland) - Cross section of wires: 0.75 mm²
Process/Port connection & communication	
Electrical connection	Cable glands M20 $\times$ 1.5

Environment and installation

Ambient temperature

Operation and storage:

- Version 12...36 V DC: 0...+60 °C (+32...+140 °F)
- Version 115/230 V AC: 0...+50 °C (+32...+122 °F)

2. Approvals**2.1. Certification UL**

Certificate	Description
	UL-Recognized for USA and Canada Products are UL-certified products and comply also with the following standards: • UL 61010-1 • CAN/CSA-C22.2 No.61010-1

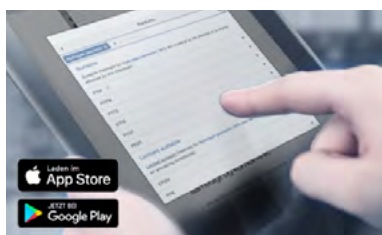
2.2. Pressure Equipment Directive

The device conforms to Article 4, Paragraph 1 of the Pressure Equipment Directive 2014/68/EU under the following conditions:

Device used on a pipe**Note:**

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure; DN = nominal diameter of the pipe

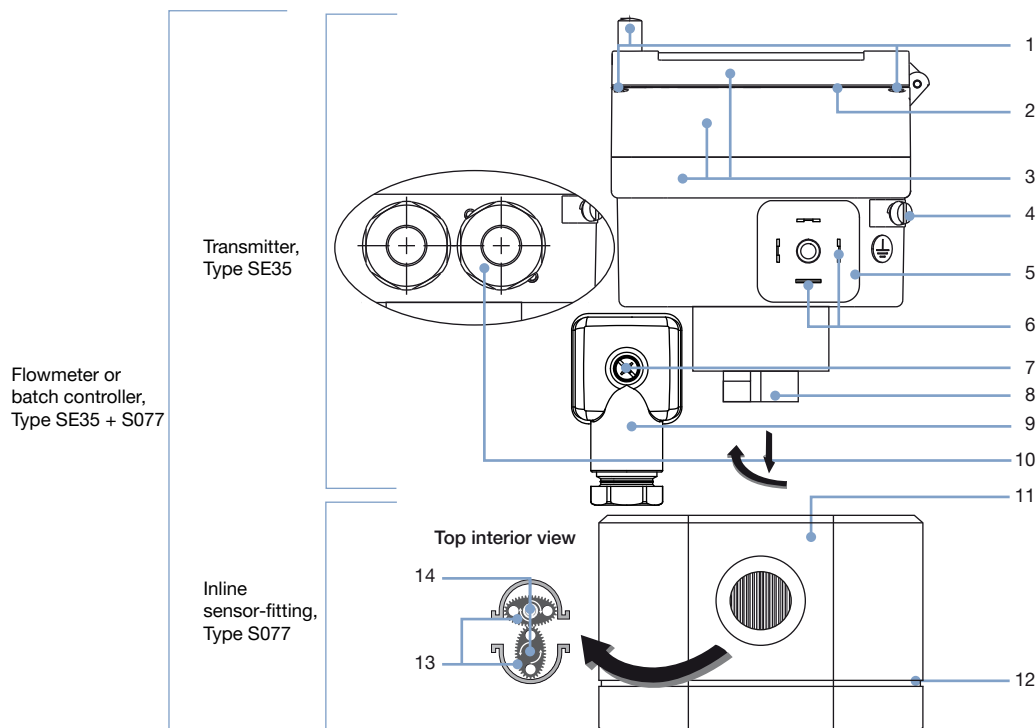
Type of fluid	Conditions
Fluid group 1, Article 4, Paragraph 1.c.i	DN ≤ 25
Fluid group 2, Article 4, Paragraph 1.c.i	DN ≤ 32 or PS*DN ≤ 1000
Fluid group 1, Article 4, Paragraph 1.c.ii	DN ≤ 25 or PS*DN ≤ 2000
Fluid group 2, Article 4, Paragraph 1.c.ii	DN ≤ 200 or PS ≤ 10 or PS*DN ≤ 5000

3. Materials**3.1. Chemical Resistance Chart – Bürkert resistApp****Bürkert resistApp – Chemical Resistance Chart**

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start Chemical Resistance Check](#)

3.2. Material specifications



No.	Description	Material
1	Screws	Stainless steel
2	Front panel folio	Polyester
3	Housing, cover, lid	PC
4	Screws	Stainless steel
5	Male fixed plug (EN 175301-803)	PA
6	Electrical contact	Sn
7	Screw	Stainless steel
8	Quarter turn system	PC
9	Female cable plug (EN 175301-803)	- Body, contact holder and cable gland in PA - Cable gland seal and flat seal in NBR
10	M20 x 1.5 cable gland	PA
11	Sensor-fitting body	Stainless steel
12	Seal	FKM or FEP/PTFE encapsulated
13	Oval gear	PPS, aluminium or stainless steel (316L)
14	Axis	Stainless steel (316L)

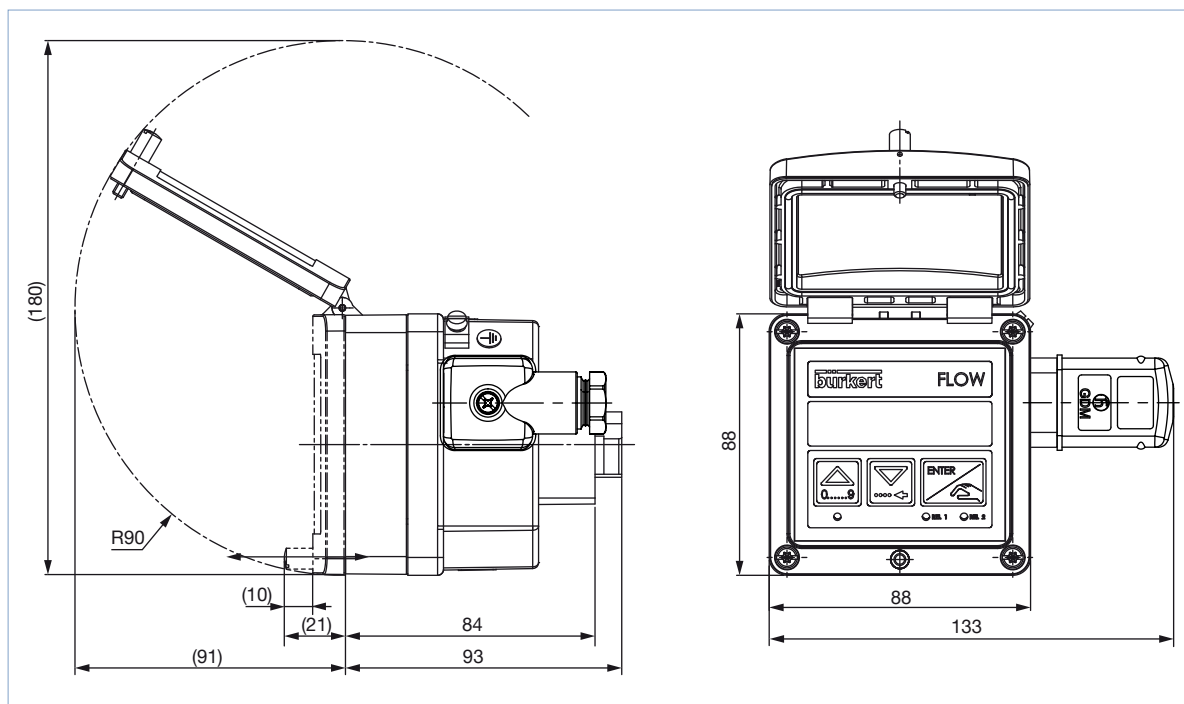
4. Dimensions

4.1. Transmitter SE35

Version with cable plug (EN 175301-803)

Note:

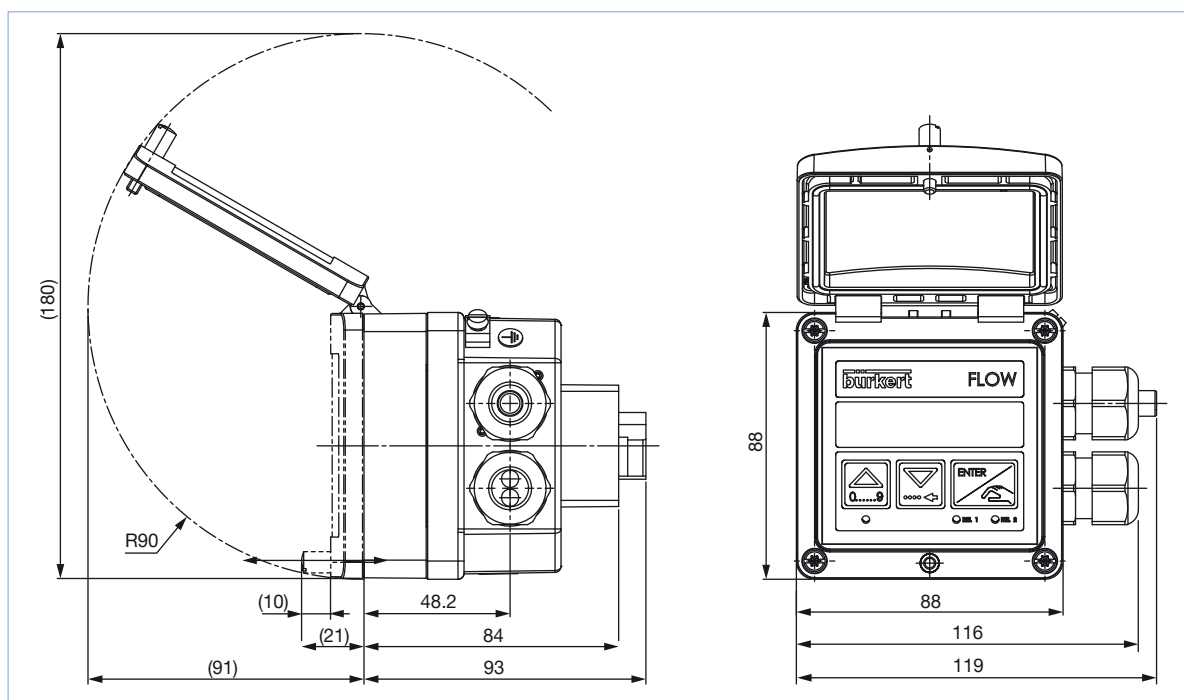
Specifications in mm



Version with M20x1.5 cable glands

Note:

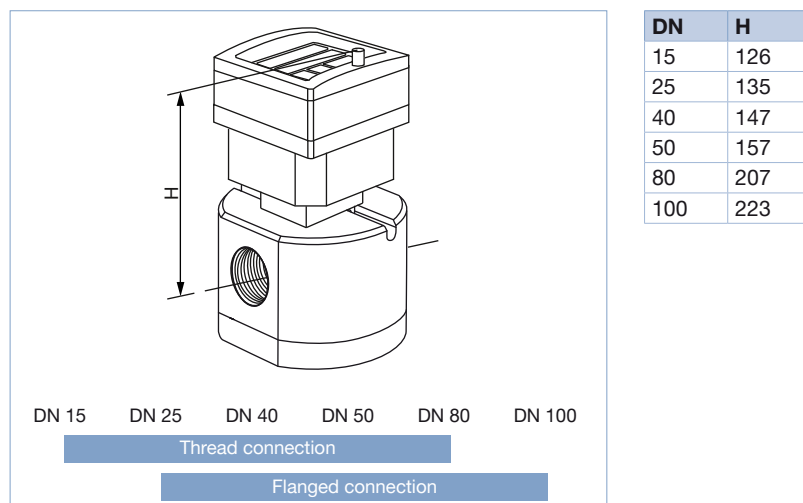
Specifications in mm



4.2. Transmitter SE35 mounted in a S077 sensor-fitting

Note:

Specifications in mm



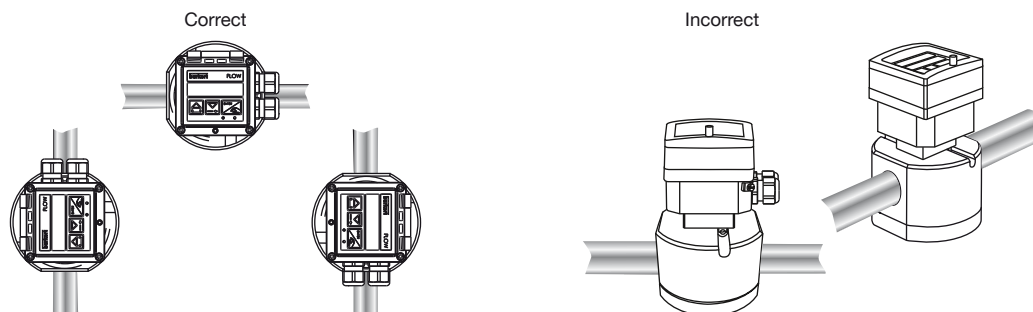
5. Product installation

5.1. Installation notes

Note:

The flowmeter is not designed for gas and steam flow measurement.

The sensor fitting can be installed in any orientation as long as **the rotor shafts are always in a horizontal plane**.



The pipe must be filled with liquid and free from air bubbles. Avoid air purge of the system which would cause damages and to prevent damage from dirt or foreign matter, we strongly recommend the installation of a 250 µm strainer as close as possible to the inlet side of the meter.

6. Product operation

6.1. Measuring principle

When liquid flows through the pipe, the rotors turn. This rotation produces a measuring signal in the associated hall sensor. The frequency and amplitude are proportional to the flow. The volume of the fluid being transferred in this way is exactly determined through the sensor geometry.

A conversion coefficient, specific to each meter size, enables the conversion of this frequency into a flow rate. The standard K-factor depending on the meter size is available in the **instruction manual of the sensor fitting Type S077** ►. To improve the measurement deviation, a specific K-factor is given with each device on its label.

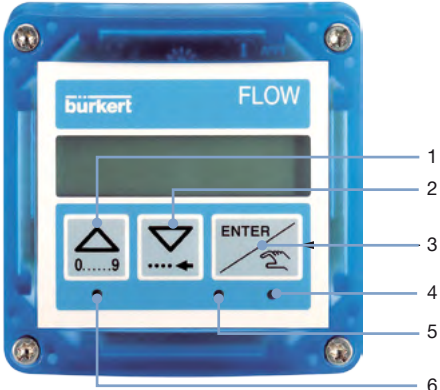
The electrical connection is provided via a cable plug according to EN 175301-803 or two cable glands (according to the device version).

6.2. Functional overview

Display and operating keys

The display is used to:

- Read the value of certain parameters e.g. for the flowmeter, the measured flow rate, the main totalizer
- Set parameters of the device by means of 3 keys
- Read the configuration of the device
- Get notification of some events

Display and operating keys	No.	Description
	1	Back" key: • to change the value (0...9) of the selected digit • to go back to the previous function • Read the batches history (only for Inline batch controller)
	2	"Next" key: • to select the digit at the left • to go to the next function • read messages (only for Inline batch controller)
	3	"Confirm" key: • to confirm the function displayed • to confirm the parameters set
	4	• For Inline flowmeter – status LED of relay 2 • For Inline batch controller – status LED of relay DO3 (LED ON = contact closed)
	5	• For Inline flowmeter – status LED of relay 1 • For Inline batch controller – status LED of relay DO2 (LED ON = contact closed)
	6	Status of device • No status for Inline flowmeter • For Inline batch controller – green: the device operates correctly. – orange: a dosing related alarm and/or a warning messages is generated in the information menu. – red: a fault message is generated in the information menu.. – blinking, whatever the colour: - slow blinking: the dosing is interrupted. - Fast blinking during a dosing: a dosing related alarm is generated. - Fast blinking when no dosing is being done: the information menu has been remote-consulted or a check for the correct behaviour of the inputs/outputs is running

The device can be calibrated by means of the K-factor of the sensor-fitting used, or via the Teach-In function. User adjustments, such as engineering units, output, filter, bargraph are carried out on site.

Inline flowmeter

The device has 2 operating levels:

- the process level
- the configuration level, which comprises the parameters and the test menus

Operating level	Functions
Process	• Indication of – the value of the measured flow – the value of the 4...20 mA output – the value of the main totalizer – the value of the daily totalizer • Reset the daily totalizer • Access to the Parameters and Test menus of the Configuration level
Configuration - parameters menu	• To make the settings needed for operation: – language – engineering units (International measuring units) – K-factor/Teach-In function – 4...20-mA-current output – pulse output – relay (on devices with relays) – filter (damping) – reset both totalizers
Configuration - test menu	• To adjust the Offset and Span of the 4...20 mA current output • To read the rotational frequency of the paddle wheel • To check the correct operating of the outputs with simulating a flow rate

Inline batch controller

The device has 2 operating levels:

- The process level
- The configuration level, which includes the parameters, the test, the information and the history menus

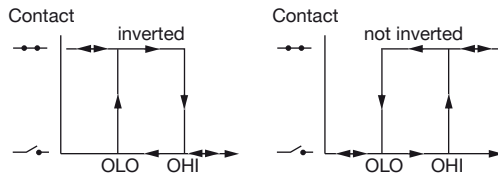
Operating level	Functions
Process	• Starting a dosing • Indication of – The value of the main totalizers of the quantity of fluid counted – The value of the daily totalizers of the quantity of fluid counted – The value of the main totalizers of the performed dosings – The value of the daily totalizers of the performed dosings • Reset – The daily volume or mass totalizer – The daily totalizer of the performed dosings • Access to the parameters, test, information and history menus of the configuration level
Configuration - parameters menu	• To make the settings needed for operation: – language – engineering units (International measuring units) – K-factor/Teach-In function – Optional/dosing mode – Overfill – Alarm – Outputs – Resetting the 2 volume or mass totalizers – Resetting the 2 totalizers of the performed dosings – Resetting the history menu – Backlight
Configuration - test menu	• Checking: – The inputs functions – The outputs functions – The paddle-wheel operation • Monitoring: – The flow rate in the pipe – The value of the daily volume or mass totalizer – The number of performed dosings • Saving/ Restoring: – The current user configuration – The saved configuration – The default configuration of the device
Configuration - history menu	To consult the quantities dosed in the last 10 dosings performed
Configuration - information menu	To read the fault and warning messages generated

6.3. Function modes

Inline flowmeter

- 4...20 mA output + Pulse
- 4...20 mA output + Pulse + relay output
Hysteresis switching mode (both relays) for the output, inverted or not

Hysteresis mode



Inline batch controller

The following dosing modes are possible:

- **Locally started dosing of free quantity:** the user enters the quantity to be filled and starts the dosing from the keypad.
- **Locally started dosing of pre-set quantity:** the user selects a quantity which has been pre-set and starts the dosing from the keypad.
- **Locally started dosing of free/pre-set quantity:** the user enters the quantity to be filled or selects a quantity which has been pre-set and starts the dosing from the keypad.
- **Dosing controlled by a PLC unit:** the user selects a quantity which has been pre-set and starts the dosing using binary inputs.
- **Locally/remote selection of pre-set quantity and dosing controlled by a PLC unit:** the user selects a quantity which has been pre-set from the keypad or using binary inputs and starts the dosing using binary inputs.
- **Automatic dosing controlled by variation of pulse duration:** the quantity of the dosing is directly proportional to the duration of a pulse.
- **Remote dosing determined by Teach-In:** Teach-In of the dosing quantity using binary inputs.
- **Local dosing determined by Teach-In:** Teach-In of the dosing quantity from the keypads.

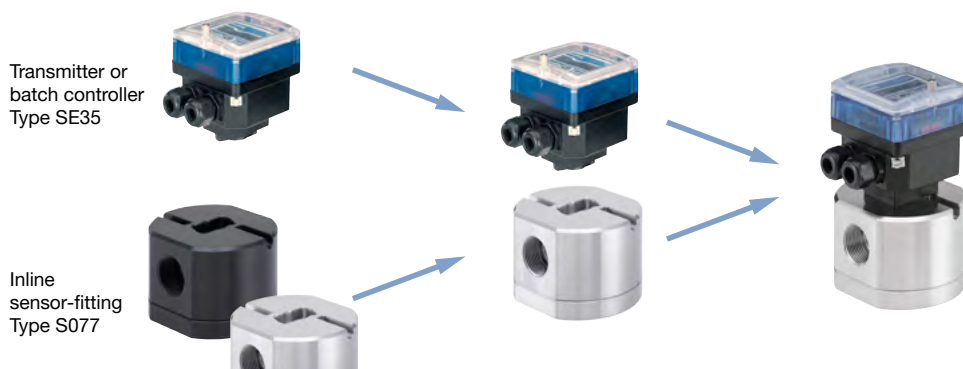
7. Product design and assembly

7.1. Product assembly

Note:

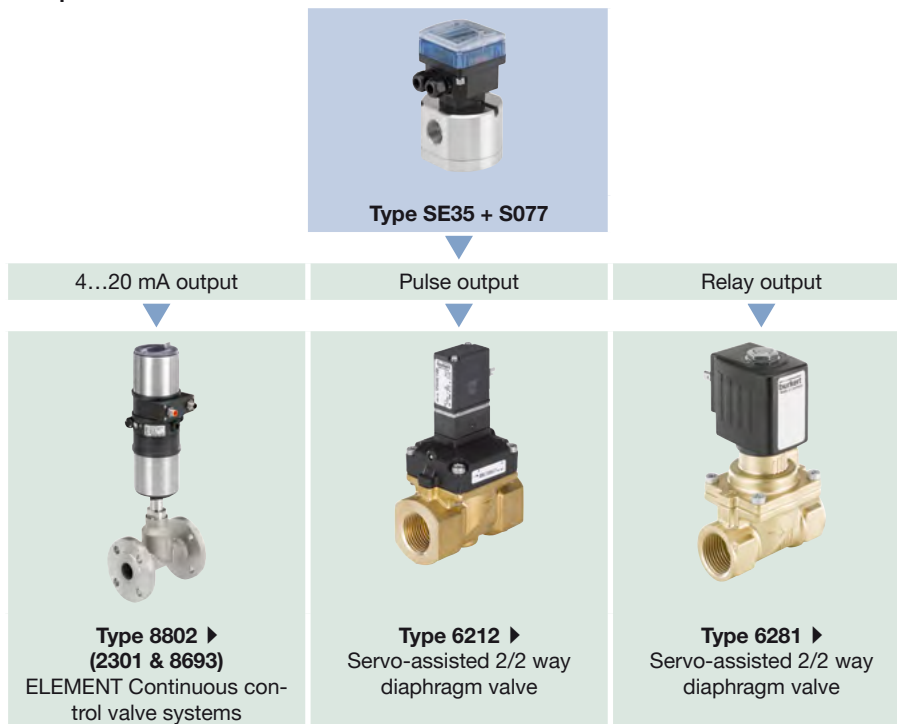
- The device Type SE35 + S077 is made up of a compact Inline sensor-fitting (S077) equipped with a sensor with oval gear and a transmitter (SE35).
The electronic housing of the SE35 integrates the electronic board with display, keys and also a transducer (Hall).
- The S077 Inline sensor-fitting ensures simple installation into pipes from DN 15...DN 100. The SE35 transmitter can easily be installed into any Bürkert sensor-fitting system, by means of a quarter turn.

See **data sheet Type S077** ► for more information.



8. Networking and combination with other Bürkert products

Example:



9. Ordering information

9.1. Bürkert eShop – Easy ordering and quick delivery



Bürkert eShop – Easy ordering and fast delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

9.2. Recommendation regarding product selection

Inline flowmeter

A complete flowmeter Type SE35 + S077 consists of a compact SE35 flow transmitter and a Bürkert S077 Inline sensor-fitting.

See **data sheet Type S077 ▶** for more information.

Two different components must be ordered in order to select a complete device. The following information is required:

- **Article no.** of the desired compact SE35 flow transmitter (see chapter "[Inline flow transmitter](#)" on page 16)
- **Article no.** of the selected S077 Inline sensor-fitting (See **data sheet Type S077 ▶**)

[Visit product website ▶](#)

Inline batch controller

A complete Inline batch controller Type SE35 + S077 consists of a compact SE35 transmitter and a Bürkert S077 Inline sensor-fitting.

See **data sheet Type S077** ► for more information.

Two different components must be ordered in order to select a complete device. The following information is required:

- **Article no.** of the desired compact SE35 batch controller (see chapter **"Inline batch controller" on page 17**)
- **Article no.** of the selected S077 Inline sensor-fitting (See **data sheet Type S077** ►)

9.3. Bürkert product filter



Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

9.4. Ordering chart of the Type SE35**Inline flow transmitter****Note:**

The S077 Inline sensor-fitting must be ordered separately.

Voltage supply	Output	Relays	Sensor version	UL certification	Electrical connection	Article no.
Inline flow transmitter, 2 totalizers						
12...36 V DC	4...20 mA (2 wires) + Pulse	None	Hall	–	Female cable plug EN 175301-803	444005 
				UL-Recognized		570477 
				–	2 cable glands	444006 
	UL-Recognized	553432 				
	4...20 mA (3 wires) + Pulse	2		–		444007 
				UL-Recognized	553433 	
115/230 V AC	4...20 mA (2 wires) + Pulse	None	–		423922 	
	4...20 mA (3 wires) + Pulse	2			423924 	

Inline batch controller**Note:**

- The S077 Inline sensor-fitting must be ordered separately:
- All these versions have as minimum:
 - 2 transistor outputs (DO1 and DO4)
 - 2 relay outputs (DO2 and DO3)
 - 4 digital inputs (DI1...DI4)
 - 2 volume or mass totalizers
 - 2 batch totalizers

Voltage supply	Sensor version	UL certification	Electrical connection	Article no.
12...36 V DC	Hall	–	2 cable glands	443360 
		UL-Recognized		564398 
115/230 V AC		–		423926 

9.5. Ordering chart accessories

Description	Article no.
For Inline flowmeter or batch controller	
Set with 2 cable glands M20 × 1.5 + 2 neoprene flat seals for cable gland or plug + 2 screw plugs M20 × 1.5 + 2 multiway seals 2 × 6 mm	449755 
Set with 2 reductions M20 × 1.5 /NPT ½" + 2 neoprene flat seals for cable gland or plug + 2 screw plugs M20 × 1.5	551782 
Set with 1 stopper for unused cable gland M20 × 1.5 + 1 multiway seal 2 × 6 mm for cable gland + 1 black EPDM seal for the sensor + 1 mounting instruction sheet	551775 
For Inline flowmeter	
Female cable plug EN 175301-803 with cable gland - see Type 2518 ▶	572264 
Female cable plug EN 175301-803 with NPT ½" reduction without cable gland - see Type 2509 ▶	162673 
For Inline batch controller	
Set with 8 FLOW front panel foils	553191 

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