



Inline flowmeter or Inline batch controller, with paddle wheel

- Up to PN 16, size of measuring pipes: DN 06...DN 65
- 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

AirLINE SP electropneumatic automation system

Type description

The paddle wheel device Type 8035 is specially designed for use in neutral or slightly aggressive, solid-free liquids. The device is provided as flowmeter or batch controller.

The device is made up of a compact Inline sensor-fitting with paddle wheel (Type S030) and a transmitter with display (Type SE35). The device is quickly and easily assembled thanks to a bayonet mounting and locking system. The Bürkert "Inline guarter-turn" technology ensures a leakage-free operation.

The Bürkert designed sensor-fitting system ensures simple installation of the devices into all pipelines from DN 06...DN 65.

The flowmeter is available either as a variant with standard signal output or as a battery-powered indicator/totaliser variant without output.



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General technical data

1.1. About the device

The Inline device Type 8035 is available as a flowmeter or a batch controller in a compact variant. Furthermore, the flowmeter is available either as a measuring device with a standard output signal or as a battery powered indicator/totalizer without output.

1.2. All variants

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

Product properties

Material

Make sure the device materials are compatible with the fluid you are using.

Further information can be found in chapter "4.1. Bürkert resistApp" on page 10.

Further information on the materials can be found in chapter "4.2. Material specifications" on page 11.

Ion wetted	parts
------------	-------

Lid	PC
Front panel film	Polyester
Cover	PC
Housing	PC
0	01-1-1

Screw Stainless steel

Bayonet system PC Cable gland PA

Wetted parts

Sensor armature Brass, stainless steel, PVC, PP or PVDF (depending on the Inline sensor-fitting variant Type S030)

Axis and bearing Ceramics (Al₂O₃)

PVDF Paddle wheel

Brass, stainless steel, PVC, PP or PVDF (depending on the Inline sensor-fitting variant Type S030) Sensor-fitting body

FKM or EPDM (depending on the Inline sensor-fitting variant Type S030) Seal

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

Any pipe from DN 06...DN 65 which are fitted with Bürkert Type S030 Inline sensor-fitting. Compatibility For the selection of the nominal diameter of the Inline sensor-fittings, see data sheet Type S030 >.

Pipe diameter DN 06...DN 65 Further information can be found in chapter "5. Dimensions" on page 13. **Dimensions**

Measuring principle Paddle wheel

Measuring range • Flow rate: 0.5...1000 l/min (0.13...265 gpm)

• Flow velocity: 0.3...10 m/s

Measurement deviation Teach-In: ±1% of the measured value 1.) at Teach-In flow rate value

Standard K-factor: ±2.5 % of the measured value 1.)

±0.5% of full scale 1.) Linearity

Repeatability ±0.4% of the measured value 1.)

Electrical data

Performance data

Power source (not supplied) Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/

EN 61010-1 §9.4

DC reverse polarity protection Yes Overvoltage protection Yes

Voltage supply cable Cable with maximum operating temperature greater than 80 °C (176 °F) (90 °C (194 °F) for UL-Recognized variant)

• Max. 50 m length, shielded

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Medium data		
Fluid temperature	With Inline sensor-fitting Type S030 in:	
tomporatoro	• PVC: 0+50 °C (+32+122 °F)	
	• PP: 0+80 °C (+32+176 °F)	
	·	
	• PVDF, stainless steel or brass: -15+100 °C (+5+212 °F)	
-	See data sheet Type S030 ▶ for more information.	
Fluid pressure	With Inline sensor-fitting Type S030 in:	
	plastic: max. PN 10	
	metal: max. PN 16 (PN 40 on request)	
	See data sheet Type S030 ▶ for more information.	
Viscosity	Max. 300 cSt	
Rate of solid particles	Max. 1 %	
Maximum particle size	0.5 mm	
Process/Pipe connection & con		
Pipe connection	With Inline sensor-fitting Type S030 in:	
	Plastic: true union with nut and solvent/fusion socket, spigot or external thread	
	Metal: internal or external thread, weld ends, clamp or flange	
	See data sheet Type S030 ▶ for more information.	
Approvals and conformities		
Directives		
CE directive Further information on the CE Directive can be found in chapter "3.3. Standards" on p		
Pressure equipment directive	Complying with article 4, paragraph 1 of 2014/68/EU directive	
	Further information on the pressure equipment directive can be found in chapter "3.4. Pressure	
North Association (LICA/Conside)	Equipment Directive (PED)" on page 9.	
North America (USA/Canada)	UL Recognized for the USA and Canada	
Environment and installation	.000/	
Relative air humidity	≤80 %, without condensation Max. 2000 m	
Height above sea level	Continuous	
Operating condition	Fixed	
Equipment mobility	Indoor and outdoor	
Application range	Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors,	
	against the effects of climatic conditions.	
Degree of protection ^{2.)} according	IP65 with the following conditions met:	
to IEC/EN 60529	device wired	
	cover and lid screwed tight	
	<u> </u>	
	female cable plug or glands mounted and tightened	
Landa Wallana and a	with blind plug on unused cable glands Output of the second of the	
Installation category	Category I according to UL/EN 61010-1	

^{1.)} Under reference conditions i.e. measuring medium = water, ambient and water temperature = +20 °C (+68 °F), observing the minimum the minimum inlet and outlet sections and the appropriate inner diameter of the pipe.

Degree 2 according to UL/EN 61010-1

Pollution degree

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^{2.)} Not evaluated by UL



1.3. 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.

Product properties	
Material	
Female cable plug/male fixed	Body, contact holder and cable gland in PA
plug	Cable gland seal and flat seal in NBR
Performance data	
420 mA output uncertainty	±1% of current range
Electrical data Operating voltage (V+)	Measuring device with standard output signal
Sperating voltage (V+)	1236 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
	Battery powered indicator/totalizer
	 4x1.5 V DC non-rechargeable alkaline AA batteries, lifetime 4 years at 20 °C (68 °F)
Current consumption	1236 V DC powered measuring device with 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
Output	Measuring device with standard output signal
	Transistor (pulse):
	 potential free
	 NPN or PNP (wiring dependant)
	 function: pulse output, adjustable pulse value
	- 0400 Hz
	 536 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, normally open, hysteresis, adjustable thresholds
	 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:
	420 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 (1090 %) for the measured value: 6 s (default))
	Battery powered indicator/totalizer
	Without output

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Voltage supply cable	Measuring device with standard output signal
	External diameter (cable):
	- 58 mm (with cable plug)
	 612 mm (1 cable per cable gland) or 35 mm when using a multi-way seal (2 cables per cable gland)
	Cross section of wires:
	- 0.251.5 mm² (with cable plug)
	 0.75 mm² (with cable gland)
	 Cross section of the local ground wire: max. 0.75 mm²
	Battery powered indicator/totalizer
	• None
Process/Pipe connection &	communication
Electrical connection	 Variant 1236 V DC: cable plugaccording to DIN EN 175301-803 or cable glands M20×1.5
	Variant with batteries: None
Environment and installation	n
Ambient temperature	Operation and storage:
	 variant 1236 V DC: -10+60 °C (+5+140 °F)
	 variant 115/230 V AC: -10+50 °C (+5+122 °F)
	 variant with batteries: -10+55 °C (+5+131 °F)

1.4. 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+)	 1236 V DC, max tolerance: -5% or +10% at 12 V DC, ±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
Input	• DI (1 to 4)
	 Switching threshold V_{on}: 536 V DC
	 Switching threshold V_{off} max.: 2 V DC
	Min. pulse duration: 100 ms
	 Input impedance: 9.4 kΩ
	Galvanic insulation, protected against polarity reversals and voltage spike

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Output	Transistors (digital outputs DO1 and DO4):
	 potential-free
	 NPN or PNP (wiring dependant)
	 function: pulse output (by default for DO1), batch state (by default for DO4), configurable and parametrisable
	- 0300 Hz
	536 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 (digital outputs 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):
	- 612 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/Pipe connection &	communication
Electrical connection	Cable glands M20×1.5
Environment and installatio	n
Ambient temperature	Operation and storage:
	 variant 1236 V DC: -10+60 °C (+5+140 °F)
	 variant 115/230 V AC: -10+50 °C (+5+122 °F)

2. Product versions

2.1. Flowmeter

The flowmeter is available in two variants:

- Inline flowmeter with standard output signal (4...20 mA, frequency)
- Inline flowmeter as battery powered indicator/totalizer



Flowmeter with standard output signal

The device operates on a 2- or 3-wire system and needs a 12...36 V DC or a 115/230 V AC power supply. The device is equipped with:

- an analogue output (4...20 mA current output)
- a digital output (pulse output) and
- two totalizers.

Some variants are also fitted with two fully configurable relay outputs.

The device allows:

- through the digital or relay outputs
 - to switch a solenoid valve
 - to activate an alarm
 - to generate a flow rate proportional frequency
- · through the analogue output to establish a control loop

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Flowmeter as battery powered indicator/totalizer

The device has no output and displays the instantaneous value as well as the amount of liquid that has flowed trough.

2.2. Batch controller



The device needs a voltage supply of 12...36 V DC or 115/230 V AC. The device is equipped with:

- · four digital inputs (DI1 to DI4),
- two transistor outputs (DO1 configured as a pulse output and DO4 configured as state output, by default),
- two relay outputs (DO2 always configured to control the valve and by default parametrise of 100 % of the batch quantity and DO3 configured as alarm output by default),
- two volume or mass totalizers and two totalizers for the number of batches performed.

The second relay output can be used to activate another valve, to initiate alarms or to generate warnings.

When mounted in a pipe in series with one or two valves, the batch controller makes it possible to carry out a dosing of one or several quantities of liquids. The unit controls the opening of the valves and measures the quantity of the fluid which flows. The unit also closes the valves when the pre-set quantity has been delivered.

3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product
 complies with all required specifications.
- · Not all available variants of the device can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Pressure Equipment Directive (PED)

The device conforms to article 4, paragraph 1 of the Pressure Equipment Directive (PED) 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 (in bar), 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

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3.5. North America (USA/Canada)

Approval

Description



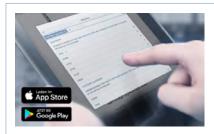
Optional: UL Recognized for the USA and Canada

The products are UL Recognized for the USA and Canada according to:

- UL 61010-1
- CAN/CSA-C22.2 No. 61010-1

4. Materials

4.1. 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

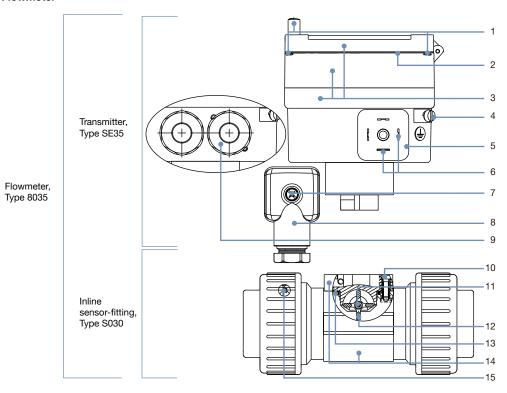
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4.2. Material specifications

Flowmeter



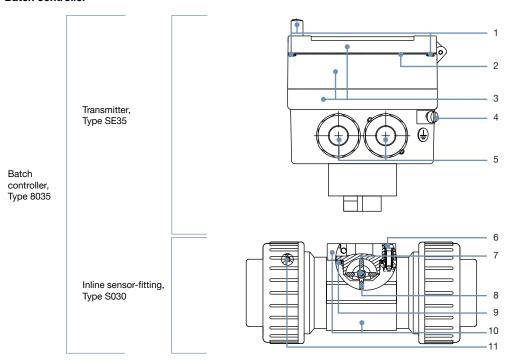
No.	Element	Material
1	Screws	Stainless steel
2	Front panel folio	Polyester
3	Housing, cover, lid	PC
4	Screws	Stainless steel
5	Male fixed plug (DIN EN 175301-803)	PA
6	Electrical contact	Sn
7	Screw	Stainless steel
8	Female cable plug (DIN EN 175301-803)	Body, contact holder and cable gland in PA
		Cable gland seal and flat seal in NBR
9	M20x1.5 cable gland	PA
10	Screws	Stainless steel
11	Axis and bearings	Ceramics (Al ₂ O ₃)
12	Paddle wheel	PVDF
13	Seal	FKM or EPDM (depending on the Inline sensor-fitting variant Type S030)
14	Sensor-fitting body, sensor armature	Stainless steel (316L - 1.4404), brass (CuZn ₃₉ Pb ₂), PVC, PP, PVDF (depending on the Inline sensor-fitting variant Type S030)
15	Seals	FKM or EPDM (depending on the Inline sensor-fitting variant Type S030 and only for true union connection)

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Batch controller



No.	Element	Material
1	Screws	Stainless steel
2	Front panel folio	Polyester
3	Housing, cover, lid	PC
4	Screws	Stainless steel
5	M20x1.5 cable gland	PA
6	Screws	Stainless steel
7	Axis and bearings	Ceramics (Al ₂ O ₃)
8	Paddle wheel	PVDF
9	Seal	FKM or EPDM (depending on the Inline sensor-fitting variant Type S030)
10	Sensor-fitting body, sensor armature	Stainless steel (316L - 1.4404), brass (CuZn ₃₉ Pb ₂), PVC, PP, PVDF (depending on the Inline sensor-fitting variant Type S030)
11	Seals	FKM or EPDM (depending on the Inline sensor-fitting variant Type S030 and only for true union connection)

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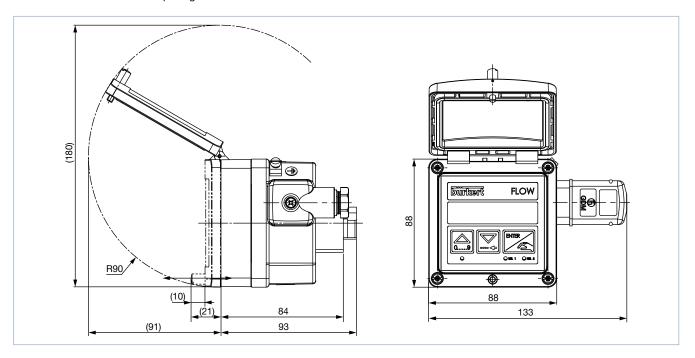
5. Dimensions

5.1. Transmitter Type SE35

With cable plug (DIN EN 175301-803)

Note:

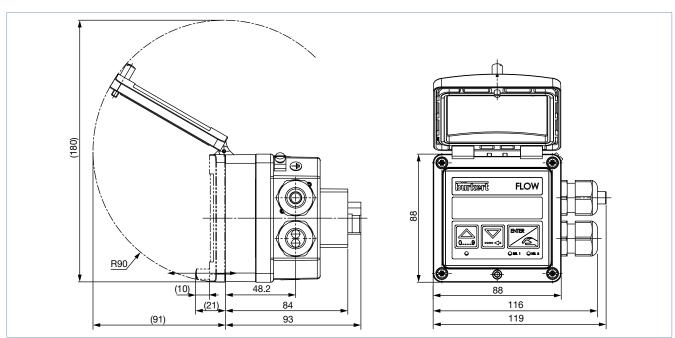
- Dimensions in mm, unless otherwise stated
- Flowmeter with standard output signal



With M20 x 1.5 cable glands

Note:

- Dimensions in mm, unless otherwise stated
- Flowmeter with standard output signal or batch controller



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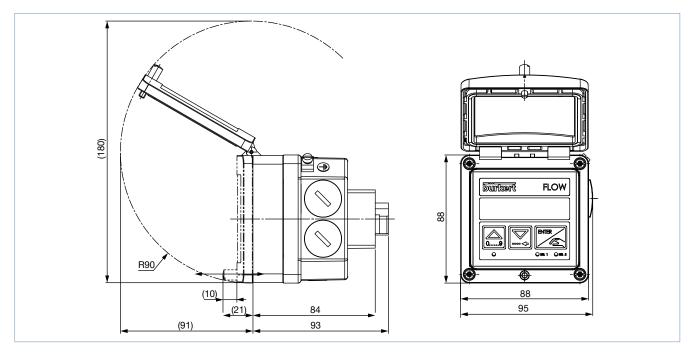
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Battery powered indicator/totalizer

Note:

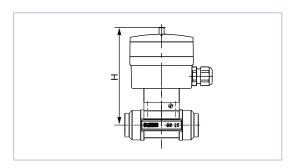
Dimensions in mm, unless otherwise stated



5.2. Transmitter Type SE35 mounted in an Inline sensor-fitting Type S030

Note:

Dimensions in mm, unless otherwise stated



DN	H
06	134
08	134
15	139
20	137
25	137
32	140
40	144
50	151
65	151

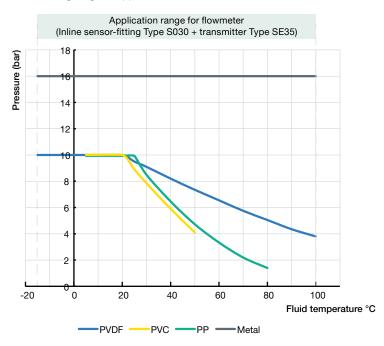


6. Performance specifications

6.1. Pressure temperature diagram

Note:

The following diagram applies to the flowmeter or batch controller.



7. Product installation

7.1. Installation notes

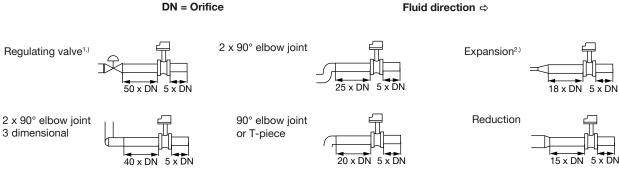
Note:

The device is not suitable for use in gaseous media and steam.

Minimum straight distances upstream and downstream of the sensor must be observed. These stabilizing distances depend on the pipe's design. Increasing these distances or installing a flow conditioner may be necessary to obtain the best accuracy. For more information, refer to EN ISO 5167-1.

EN ISO 5167-1 specifies the straight inlet and outlet distances that must be complied with when installing fittings in pipe lines in order to achieve calm flow conditions. The most commonly used elements that could lead to turbulence in the flow are shown below. The related minimum inlet and outlet distances that ensure a calm flow are also specified.

Make sure that the measuring conditions at the point of measurement are calm and problem-free.



1.) If the valve cannot be mounted after the measuring device, the minimal distances have to be respected.

If an expansion cannot be avoided, the minimal distances have to be respected.

Please note minimum flow velocity

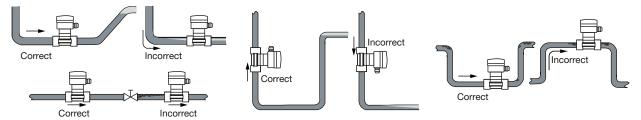


The device can be installed in either horizontal or vertical pipes, but following additional conditions should be respected:

- The pipe always has to be filled with fluid at all times near the device.
- The pipe design must be such that no air bubbles or cavitation can form within the medium near the device at any time.

The flowmeter can be installed into either horizontal or vertical pipes.

Important criteria for this are; ensure that the measurement pipe is fully filled and that the measurement pipe is air bubble free.



Pressure and temperature ratings must be respected according to the selected fitting material. The suitable pipe size is selected using the diagram in the chapter "Nominal size selection" of the **data sheet Type S030** .

8. Product operation

8.1. Measuring principle

When liquid flows through the pipe, the paddle wheel with 4 inserted magnets is set in rotation, producing a measuring signal in the sensor (coil or Hall sensor depending on variant). The frequency modulated induced voltage is proportional to the flow velocity of the fluid. A K factor, specific to each pipe, enables the conversion of this frequency into a flow rate/volume. This K factor is available in the fittings' operating instructions, see **Type S030**.

Flowmeter:

The electronic component converts the measured signal into several outputs (according to the device variant) and displays the actual value. Totalizers are used to obtain the volume of fluid passed through the pipe.

The electrical connection for the flowmeter with standard output signal is provided via a cable plug according to DIN EN 175301-803 or two cable glands (according to the flowmeter variant).

Batch controller:

The electronic component converts the measured signal and displays the actual value of the volume or mass. The electrical connection is provided via two cable glands.

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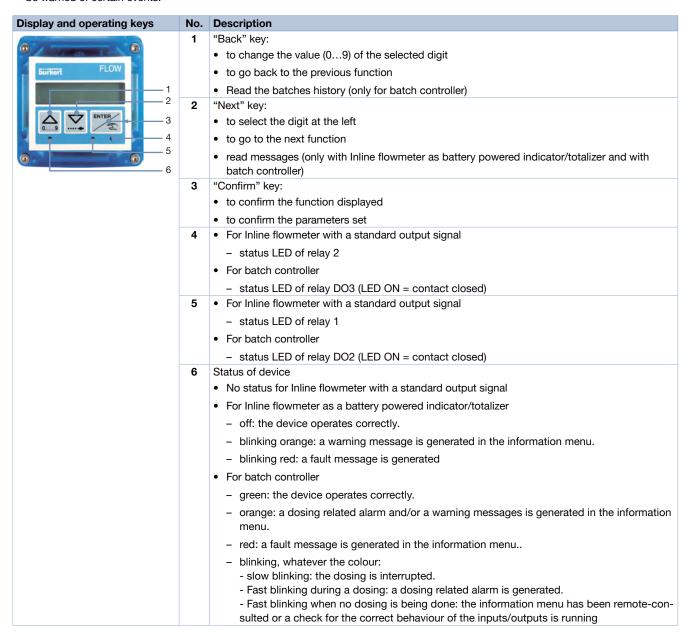


8.2. Functional overview

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
- be warned of certain events.



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

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Flowmeter with a standard output signal

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 420 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 -	To make the settings needed for operation:
parameters menu	- language
	 engineering units (International measuring units)
	 K-factor/Teach-In function
	- 420-mA-current output
	- pulse output
	- relay (on devices with relays)
	- filter (damping)
	- reset both totalizers
Configuration - test	To adjust the Offset and Span of the 420 mA current output
menu	To read the rotational frequency of the paddle wheel
	To check the correct operating of the outputs with simulating a flow rate

Flowmeter as battery powered indicator/totalizer

The device has 2 operating levels:

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

Operating level	Functions				
Process	Indication of				
	 the value of the measured flow 				
	- the value of the main totalizer				
	 the value of the daily totalizer 				
	Reset the daily totalizer				
	Access to the Parameters, Test and Information menus of the Configuration level				
Configuration -	To make the settings needed for operation:				
parameters menu	- language				
	 engineering units (International measuring units) 				
	 K-factor/Teach-In function 				
	- filter (damping)				
	- reset both totalizers				
Configuration - test	To read the rotational frequency of the paddle wheel				
menu	To generate warning and error messages				
Configuration -	To read				
information menu	- the charge of the batteries				
	 the error or warning messages generated by the device 				

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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 -	To make the settings needed for operation:				
parameters menu	- 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	Checking:				
menu	- 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				

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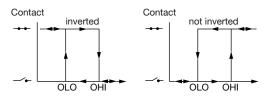


8.3. Function modes

Flowmeter with standard output signal

- 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



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.
 - pre-set quantity: the user 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 volume to be dosed is directly proportional to the duration of a pulse.
- · Locally/remote dosing determined by teach-in:
 - teach-in of the dosing quantity from the keypads
 - teach-in of the dosing quantity using binary inputs.

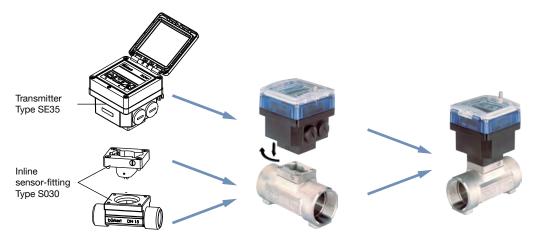


9. Product design and assembly

9.1. Product assembly

Note:

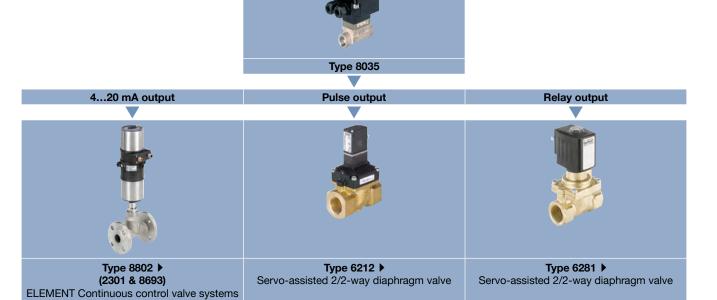
- The device Type 8035 is made up of a Bürkert Inline sensor-fitting Type S030 equipped with a paddle wheel sensor and a transmitter Type SE35.
- The electronic housing of the Type 8035 integrates the electronic board with display, setting parameter keys as well as a transducer (coil for battery indicator/totalizer variant or Hall for the other variants).
- The Inline sensor-fitting Type S030 ensures simple installation into pipes from DN 06...DN 65. The transmitter Type SE35 can be
 mounted on any Inline sensor-fitting Type S030 and fastened with a bayonet catch, see data sheet Type S030 ▶ for more information.



10. Networking and combination with other Bürkert products

10.1. Flowmeter with a standard output signal

Example:



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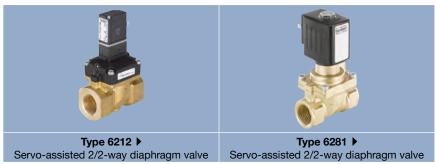
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10.2. Batch controller

Example:





11. Ordering information

11.1. kert eShop



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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.

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11.2. Recommendation regarding product selection

A complete Type 8035 Inline flowmeter or batch controller consists of a compact Type SE35 flow transmitter and a Bürkert Inline sensor-fitting Type S030.

See data sheet Type S030 ▶ 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 Type SE35 flow transmitter (see chapter "11.4. Ordering chart" on page 23)
- Article no. of the selected Type S030 Inline sensor-fitting (see data sheet Type S030)

11.3. Bürkert product filter



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11.4. Ordering chart

Flowmeter

Note:

The following variants have at least 2 volume totalizers.

Operating voltage	Sensor variant	Output	UL approval	Electrical connection	Article no.
Flow transmitter Type SE35 with standard output signal					
1236 V DC	Hall	420 mA (2 wires) + Pulse	_	Female cable plug DIN EN 175301-803	444005 ≒
			UL Recognized		570477 ≒
			_	2 cable glands	444006 ≒
			UL Recognized	2 cable glands	553432 ≒
	Hall	420 mA (3 wires) + Pulse +2 relays	_	2 cable glands	444007 ≒
			UL Recognized	2 cable glands	553433 ≒
115/230 V AC	Hall	420 mA (2 wires) + Pulse	_	2 cable glands	423922 ≒
	Hall	420 mA (3 wires) + Pulse +2 relays	_	2 cable glands	423924 ≒
Flow transmitter Type SE35 as indicator					
4×1.5 V DC AA batteries	Coil	Keine	_	None	423921 😾

Batch controller

Note:

The following variants have at least 2 volume or mass totalizers and 2 totalizers of the number of dosing performed.

Operating voltage	Sensor variant	Input	Output	UL approval	Electrical connection	Article no.
1236 V DC	Hall		· '	_	2 cable glands	443360 ≒
		(DI1DI4)	and DO4) +2 relay outputs (DO2 and DO3)	UL Recognized		564398 ≒
115/230 V AC			outputs (DO2 and DO3)	_		423926 ≒

11.5. Ordering chart accessories

Description	Article no.
For flowmeter or batch controller	
Set with two cable glands M20 \times 1.5, two neoprene flat seals for cable gland or plug, two screw plugs M20 \times 1.5 and two multi-way seals 2 \times 6 mm	449755 ≒
Set with two adaptors M20 \times 1.5 /NPT $\frac{1}{2}$ ", two neoprene flat seals for cable gland or plug and two screw plugs M20 \times 1.5	551782 ≒
Set with a stopper for unused cable gland M20 \times 1.5, a multi-way seal 2 \times 6 mm for cable gland, a black EPDM seal for the sensor and a mounting instruction sheet	551775 ≒
For flowmeter	
Female cable plug, 4-pin (3 conductors + protective conductor), form A according to DIN EN 175301-803 with cable gland (Type 2518 ▶)	572264 ≒
Female cable plug 32 mm, 4-pin (3 conductors + protective conductor), form A according to DIN EN 175301-803, with NPT ½" reduction without cable gland (Type 2509)	162673 ≒
For batch controller	
Set with 8 FLOW front panel films	553191 🛱

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