8025 Flowmeter INSERTION





Digital flowmeter for continuous flow measurement

- Compact or remote version for DN06 to DN400, PN10
- Displays both flow rate and volume (with two totalizers)
- On site calibration by Teach-In
- Simulation of all output signals

Type 8025 can be combined with...







Type 8070Positive displacement flowmeter



Type 8030 INLINE flowmeter



Type 2301 (8692/8693)TopControl System



Type 8031 Flow sensor



PLC

The flowmeter is specially designed for use in neutral, slightly aggressive, solid-free liquids.

The device is available in different models:

• The compact flowmeter:

Compact flowmeter with paddle-wheel sensor: standard output signal or battery powered indicator version without output. (page 2 to 7)

- The remote transmitter is available in two versions:
 - Universal transmitter for panel or wall mounting for connection to any sensors from the market; sensors with open collector output, relay reed output, TTL, CMOS or coil can be operated by this transmitter. (page 8 to 11)
 - Transmitter, for panel or wall mounting: standard input signal for connection to the Bürkert 8020/8030/8070 flowmeter "Low Power" version. (page 12 to 14)

Technical data (common to the various versions)			
General data			
Display 15 x 60 mm, 8-digit LCD, alphanumeric, 15 segments, 9 mm high			
Recommended cable max. 50 m, shielded, 1.5 mm² max. cross-section			
Emiliana			

Standards, directives and approvals				
Standard				
EMC	EN 61000-6-2, EN 61000-6-3			
Safety	EN 61010-1			
Vibration	EN 60068-2-6			
Shock	EN 60068-2-27			
Approvals	CE; UL-Recognized for US and Canada (UL61010-1 +			
	CAN/CSA-C22.2 No. 61010-1) 👊 us			

burkert

The compact version

The compact flowmeter is available in two versions:

- standard signal (4...20 mA, frequency)
- battery indicator/totalizer



The flowmeter combines a paddle-wheel flow sensor and an electronic module with a display in an IP65 enclosure.

The electrical connection is provided via a cable plug or two cable glands.

Bürkert designed fitting S020 ensures simple installation of the Bürkert sensor into pipes from DN20 to DN400

General data				
	THE SHEET COORD			
Compatibility	with fittings S020 (see corresponding data sheet)			
Materials	PC			
Housing, cover, lid, nut Front panel foil / Screws	Polyester / Stainless steel			
Cable plug or glands	PA			
Wetted parts materials				
Fitting	Brass, stainless steel 1.4404/316L, PVC, PP or PVDF			
Sensor holder, paddle-wheel	PVDF			
Axis and bearing / Seal	Ceramics / FKM (EPDM option)			
Electrical connections	Cable plug or cable glands M20 x 1.5 or none (for battery version)			
Device data (Fitting S020 + flow	vmeter)			
Pipe diameter	DN20DN400			
Measuring range	0.310 m/s			
Fluid temperature with fitting in				
PVC / PP	0+50°C (+32+122°F)/0+80°C (+32+176°F)			
PVDF, brass or stainless steel	-15+80°C¹) (+5+176°F)			
Fluid pressure max.	PN10 (145.1 PSI) (see pressure/temperature diagram on page 5)			
Viscosity / Pollution	300 cSt. max. / 1% max.			
Measurement deviation				
Teach-In	±1% of Reading ²⁾ (at the teach flow rate value)			
Standard K-factor	±2.5% of Reading ²⁾			
Linearity	±0.5% of F.S.* ²⁾			
Repeatability	±0.4% of Reading ²⁾			
Electrical data				
Power supply (V+)				
Standard signal version	1236 V DC ±10%, filtered and regulated, SELV (safety			
	extra low voltage) circuit with a non dangerous energy level or			
Battery indicator/totalizer version	115/230 V AC 50/60 Hz (see technical specifications 115/230 V AC) 4 x 1.5 V DC non-rechargeable alkaline AA batteries, life-			
Battery indicator/totalizer version	time 4 years at 20°C (68°F)			
Reversed polarity of DC	protected			
Current consumption with sensor	≤ 70 mA at 12 V DC - flowmeter with relays			
(without consumption of pulse output)	≤ 25 mA at 12 V DC - flowmeter without relay			
Output	,			
Standard signal version				
Signal current	420 mA (3-wire with relays; 2-wire without relay)			
	max. loop impedance: 900 Ω at 30 V DC,			
	600 Ω at 24 V DC, 50 Ω at 12 V DC,			
Dulas	800 Ω with a 115/230 V AC voltage supply			
Pulse	Polarized, potential free, 536 V DC; 100 mA, protected, line drop at 100 mA: 2.5 V DC			
Relay	2 relays, freely configurable, 230 V AC/3 A or			
<i>y</i>	40 V DC/3 A (resistive load)			
Battery indicator/totalizer version	None			
420 mA output uncertainty	±1%			
Environment				
Ambient temperature	-10+60°C (+32+140°F) (1236 V DC version)			
(operation and storage)	-10+50°C (+32+122°F) (115/230 V AC version)			
	-10+55°C (+32+131°F) (batteries version)			
Technical specifications 115/23	0 V AC			
Voltage supply	27 V DC regulated, max. current: 125 mA			
available inside the device	integrated protection: fuse 125 mA temporised			
	power: 3 VA			
Specific technical data of UL-re	cognized products for US and Canada			
Relay output	30 V AC and 42 V peak max./3A or 60 V DC max./1 A			
Ambient temperature	0+40°C (32+104°F)			
Relative humidity	max. 80%, without condensation			
Intended for an inner pollution	Pollution degree 2			
Installation category	Catagory I			

Category I

Installation category

burkert

Standards, directives and approvals				
Protection class IP65 with cable plug or gland mounted and tightened (according to EN60529) with obturator locked if not used.				
Standards and directives Pressure	Complying with article 3 of chap. 3 from 97/23/CE directive**			
* E.C. — Full cools (10 m/s)	1) with Potton varion - 100°C (010°E)			

F.S. = Full scale (10 m/s) with Battery version = 100°C (212°F)

** For the 97/23/CE pressure directive, the device can only be used under following conditions (depend on max. pressure, pipe diameter and fluid).

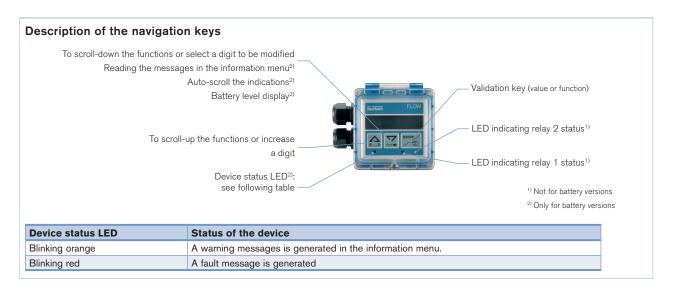
Type of fluid	Conditions
Fluid group 1, chap. 1.3.a	DN25 only
Fluid group 2, chap. 1.3.a	$DN \le 32$, or $DN > 32$ and $PN*DN \le 1000$
Fluid group 1, chap. 1.3.b	PN*DN ≤ 2000
Fluid group 2, chap. 1.3.b	DN ≤ 200

Operation and display

The device is calibrated by means of the K-factor which is either entered or determined via the Teach-In functions. User adjustments, such as measuring range, engineering units, pulse output and filtering level are carried out via the device operators interface.

The operation is specified according to two or three levels, depending on the flowmeter version:

	Indication in operating mode/display	Parameter definition	Test
Flowmeter	flow rate output current main totalizer daily totalizer with reset function	Illustration Indicates the second of the se	alteration of basic adjustment (offset, span) frequency test of sensor flow simulation
Battery indicator/ totalizer	flow rate main totalizer daily totalizer with reset function	 language engineering units K-factor/Teach-In function filter reset main totalizer 	frequency test of sensor warning and fault messages generating



Principle of operation



When liquid flows through the pipe, the 4 magnets, inserted in the paddle-wheel set in rotation, produce a measuring signal in the transducer (coil or Hall).

The frequency modulated induced voltage is proportional to the flow velocity of the fluid.

A conversion coefficient (K-factor, available in the instruction manual of the S020 fitting), specific to each pipe (size and material) enables the conversion of this frequency into a flow rate.

The electronic component converts the measured signal into several outputs (according to the flowmeter version) and displays the actual value.

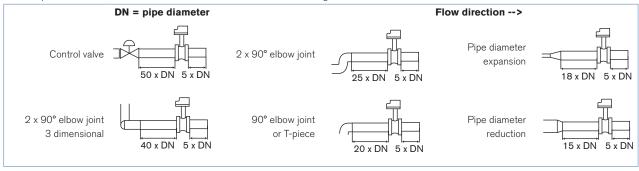
²⁾ Under reference conditions i.e. measuring fluid = water, ambient and water temperature = 20°C (68°F), applying the minimum inlet and outlet pipe straights, matched inside pipe dimensions.



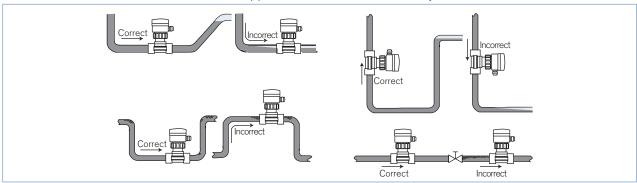
Installation

The 8025 can easily be installed into any Bürkert INSERTION fitting system (S020) by just fixing the main nut.

Minimum straight upstream and downstream distances must be observed. According to the pipe's design, necessary distances can be bigger or use a flow conditioner to obtain the best result. The most important layouts that could lead to turbulence in the flow are shown below, together with the associated prescribed minimum inlet and outlet distances determined according to the standard EN ISO 5167-1.

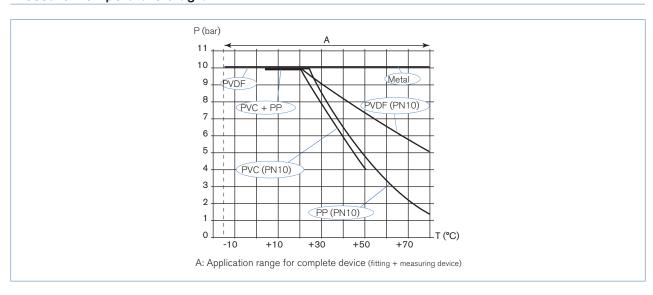


The device can be installed into either horizontal or vertical pipes. Mount the 8025 in these correct ways to obtain an accurate flow measurement.



Pressure and temperature ratings must be in accordance to the selected fitting material. The suitable pipe size is selected using the diagram Flow/Velocity/DN. The flowmeter is not designed for gas or steam flow measurement.

Pressure/Temperature diagram



burkert

Diagram Flow/Velocity/DN

Example:

- Flow: 10 m³/h
- Ideal flow velocity: 2... 3m/s

For these specifications, the diagram indicates a pipe size of DN40 [or DN50 for (*) mentioned fittings] Flow rate of fluid Not recommended US gpm I/min 1000000 ±5000 20000_ DN 400 DN 350 50000 🕸 10000_ DN 300 2000 30000 DN 250 20000 5000 1000 DN 200 10000 DN 150 2000 DN 125 5000 I 1000_ DN 100 3000 DN 80 2000 500 ‡ DN 65 100 1000 🛔 DN 50 (DN65)* 50 200 _ DN 40 (DN50)* 100 500 DN 32 (DN40)* 20 DN 25 (DN32)* 200 DN 20 (DN25)* 50 İ 10 100 ‡ 5 20. 50 ± 10_ 20 10 = 5 0.5 0.2 0.1 ± 0.05 0.2 0.5 0.1 0.02 0.2 0.01 0.3 10 m/s 0.3 3

- * for following fittings with:
- external thread acc. to SMS 1145
- weld end acc. to SMS 3008, BS 4825-1/ASME BPE/DIN 11866 series C or DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A

30 fps Flow velocity

0.5

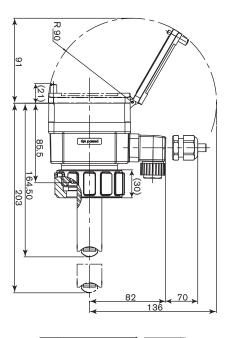
Clamp acc. to SMS 3017, BS 4825-3/ASME BPE or DIN 32676 series A

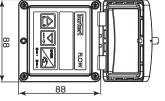
burkert

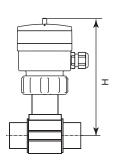
Dimensions [mm]

Note:

The length of the sensor finger depends on the fitting used.







DN	Н				
	T-Fitting	Saddle	Plastic spigot	Metal spigot	
20	185				
25	185				
32	188				
40	192				
50	198	223		193	
65	198	221	206	199	
80		226	212 204		
100		231	219 214		
110		227			
125		234	254	225	
150		244	261	236	
180		268			
200		280	282 257		
250			300	317	
300			312	336	
350			325	348	
400			340		



Ordering chart for compact flowmeter Type 8025

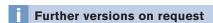
Compact flowmeter or indicator/totalizer with integrated paddle-wheel sensor

A compact flowmeter or indicator/totalizer Type 8025 consists of:

- an INSERTION flowmeter or indicator/totalizer 8025
- an INSERTION fitting Type S020 (DN20 DN400) (Refer to corresponding data sheet has to be ordered separately)

Specifica- tions	Voltage supply	Output	Relays	Sensor	Electrical	Item no.
Standard output signal	1236 V DC	420 mA (2 wires)	None	Hall, short	Cable plug	418 762
flowmeter, 2 totalizers		+ pulse			2 cable glands	418 802
				Hall, long	Cable plug	418 763
					2 cable glands	418 803
	420 mA (3 wires)		2	Hall, short	2 cable glands	418 778
		+ pulse		Hall, long	2 cable glands	418 779
	115/230 V AC	230 V AC 420 mA (2 wires)		Hall, short	2 cable glands	418 423
		+ pulse		Hall, long	2 cable glands	418 424
	420 mA (3 wires)	2	Hall, short	2 cable glands	418 431	
	+ pulse			Hall, long	2 cable glands	418 432
Indicator, 2 totalizers	4 x 1.5 V DC		None	Coil, short	None	418 403
	AA Batteries			Coil, long	None	418 405

Note: FKM seal in standard; 1 set including a black EPDM seal for the sensor, an obturator for an M20 x 1.5 cable gland, a 2 x 6 mm multiway seal and a mounting instruction sheet is supplied with each flowmeter.





Approvals FDA, UL-Recognized for US and Canada (UL61010-1 + CAN/CSA-C22.2 No. 61010-1) (\$\mathbb{A}\) is

Ordering chart - accessories for compact flowmeter Type 8025 (has to be ordered separately)

Specifica-	Item no.	
Set with 2 cable glands M20 x 1.5 + 2 neoprene flat seals for cable gland or plug + 2 screw-plugs M20 x 1.5 + 2 multiway seals 2 x 6 mm		
Set with 2 reductions M20 x 1.5 /NPT1/2" + 2 neoprene flat seals for cable gland or plug + 2 screw-plugs M20 x 1.5		
Set with 1 stopper for unused cable gland M20 x 1.5 + 1 multiway seal 2 x 6 mm for cable gland + 1 black EPDM seal for the sensor + 1 mounting instruction sheet		
Ring	619 205	
Union nut	619 204	
Set with 1 green FKM and 1 black EPDM seal		
Cable plug with cable gland (Type 2508)		
Cable plug with NPT1/2" reduction without cable gland (Type 2509)	162 673	

DN	T-fitting	DN20 Short sensor	DN50	DN65	DN100	DN200	DN35	0 DN400
fitting	Weld-in socket			Sh	ort sensor	Long se	nsor	
S020	Fusion spigot			Short s	sensor	Long sensor		
Available	Screw-on S020					Long sensor	r i	
Avai	Saddle S020			Lo	ng sensor			

8025 Transmitter REMOTE UNIVERSAL

burkert

The remote Universal version

The 8025 Universal transmitter can be associated with Bürkert flowmeter 8020, 8030, 8070... or another flow sensor which emits a frequency signal (with pulse output signal).

When connected to a flowmeter, the device makes it possible to switch a solenoid valve, activate an alarm or generate a flow rate proportional frequency, thanks to a digital output and, for some versions, by means of two relay outputs, fully configurable, and to establish a control loop thanks to a 4...20 mA current output.

The 8025 Universal is a flow transmitter with display, available in wall-mounted and panel versions:

Electrical data

Ana

device

The panel version

is made up of an electronics integrated in an open housing with display. The electrical connection is carried out on the terminal blocks of the electronic board



The wall-mounted version

is made up of an electronics integrated in a housing with cover, display. The electrical connection is carried out on the terminal blocks of the electronic board via 3 cable glands.



The device is equipped with a 4...20 mA current output (analogue output, called AO1), a digital output (configured as a pulse output by default, called DO1) and two totalizers.

Some versions are also fitted with two relay outputs (called DO2 and DO3).

The device operates on a 3 wire system and needs a 12...36 V DC or a 115/230 V AC power supply.

Technical data	
General data	
Compatibility	Bürkert flow sensor with frequency output (8020, 8030, 8030HT, 8041, 8031, 8070, 8071) or other sensors with compatible electrical data.
Materials	
Housing, cover	PC (panel-mounted version); ABS (wall-mounted version)
Front panel foil	Polyester
Screws	Stainless steel
Cable glands / Cable clips	PA (wall-mounted version) / PA (panel-mounted version)
Electrical connections	Terminals (panel-mounted version) or terminals via gland (wall-mounted version)
Recommended cable	0.21.5 mm ² cross-section, shielded cable, 48 mm di-
	ameter (for the cable glands of the wall-mounted version)

Licetifear data	
Power supply (V+) Panel- and wall-mounted version	1236 V DC (max tolerance: -5% or +10% at 12 V DC; ±10% at 36 V DC), filtered and regulated, SELV (safety extra low voltage) circuit with a non dangerous energy level,
Wall-mounted version	115/230 V AC 50/60 Hz (see technical specifications 115/230 V AC)
Reversal polarity of DC	Protected
Current consumption with sensor Version with relay Version without relays	(without consumption of current output of the flowmeter) $\leq 90~\text{mA (at }12~\text{V DC)}; \leq 45~\text{mA (at }36~\text{V DC)}; \leq 55~\text{mA (115/230 V AC)} \\ \leq 60~\text{mA (at }12~\text{V DC)}; \leq 30~\text{mA (at }36~\text{V DC)}; \leq 40~\text{mA (115/230 V AC)}$
Transmitter input (from sensor) Frequency range	0.6 Hz2.2 kHz, can be adjusted - max. voltage: 36 V DC Open collector NPN (with 470 Ω or 2.2 kΩ resistance) or PNP, Coil, TTL, CMOS (with 39 kΩ resistance)
Transmitter output (to sensor) Voltage supply	- with a 1236 V DC powered transmitter: 10.5 34.5 V DC [= (V+) - 1.5 V DC], 140 mA max. 023.5 V DC [= (V+) - 12.5 V DC], 80 mA max. non regulated 5 V DC, 30 mA max. - with a 115/230 V AC powered transmitter: +27 V DC, 80 mA max. +14.5 V DC [= (V+) - 12.5 V DC] 80 mA max. non regulated 5 V DC, 30 mA max.
Digital outputs Transistor (DO1)	NPN or PNP (wiring dependent), potential free Function: pulse output (by default), configurable

	. anothern pared datpar (b) deliantly deringarable
	0.62200 Hz, 536 V DC, 100 mA max.,
	line drop 2.7 V DC at 100 mA
	duty cycle:
	■ > 0.45 if 0.6 < frequency < 300 Hz
	■ > 0.4 if 300 < frequency < 1500 Hz
	■ < 0.4 if 1500 < frequency < 2200 Hz
	Galvanic insulation, protected against polarity reversals
	and short-circuits
Relay (DO2 and DO3)	2 relays (normally open), freely adjustable (hysteresis by default),
,	230 V AC/3 A or 40 V DC/3 A (resistive load),
	max. cutting power of 750 VA (resistive load),
	life span of min. 100000 cycles
Analogue output	
Current (AO1)	420 mA, sink or source (wiring dependent), 22 mA to indi-

Cu cate a fault (can be activated); max. loop impedance: 1300 Ω at 36 V DC, 1000 Ω at 30 V DC, 750 Ω at 24 V DC, 300 Ω at 15 V DC, 200 Ω at 12 V DC 4...20 mA output uncertainty **Technical specifications** Wall-mounted version: 115/230 V AC available inside the Voltage supply: 27 V DC regulated,

Max. current: 250 mA

Power: 6 VA

Integrated protection: fuse 250 mA temporised

8025 Transmitter REMOTE UNIVERSAL



Environment				
Ambient temperature	-10+60°C (+14+140°F) (operation and storage)			
Standards, directives and approvals				
Protection class	IP65 (panel-mounted and wall-mounted version) device wired and cable glands tightened screwed tight IP20 (panel-mounted version, inside the cabinet)			
Approvals	CE; UL-Recognized for US and Canada (UL61010-1 + CAN/CSA-C22.2 No. 61010-1)			
Specific technical data of UL-recognized products for US and Canada				
Relay output	30 V AC and 42 V peak max./3 A or 60 V DC max./1 A			
Ambient temperature	0+40°C (+32+104°F)			
Relative humidity	max. 80 %, without condensation			
Intended for an inner pollution	Pollution degree 2, according to EN61010-1			
Installation category	Category I, according to UL61010-1			

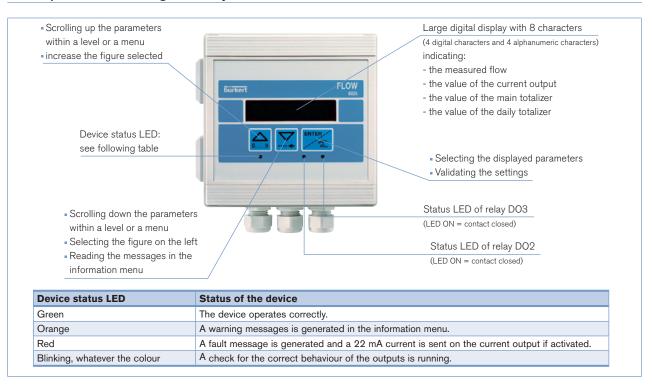
Operation and display

The device is calibrated by means of the K-factor which is either entered or determined via the Teach-In functions. User adjustments, such as measuring range, engineering units, pulse output and filtering level are carried out via the device operators interface.

The operation is specified according to two or three levels, depending on the flowmeter version:

	Indication in operating mode/ display	Parameter definition	Test
Universal flow transmitter	flow rate output current main totalizer daily totalizer with reset function	Inguage Inguage Inguinering units Inguiler Ingu	alteration of basic adjustment (offset, span) frequency test of sensor flow simulation warning and fault messages generating

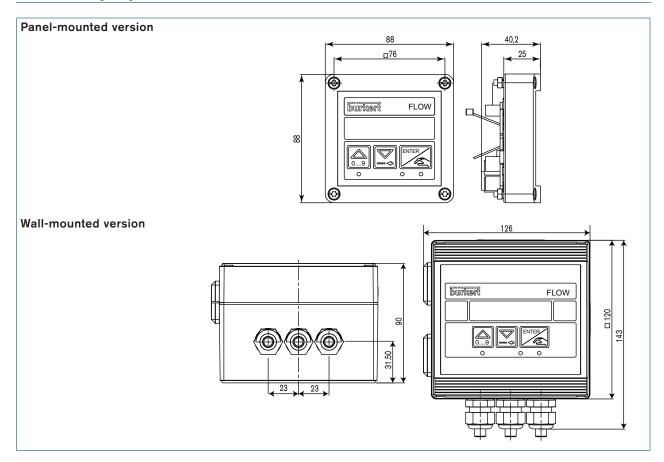
Description of the navigation keys and the status LEDs



8025 Transmitter REMOTE UNIVERSAL

burkert

Dimensions [mm]



Ordering chart for remote Universal transmitter Type 8025

Remote 8025 Universal transmitter (panel- or wall-mounted) for connection to Bürkert or other sensors.

A complete remote Universal flow transmitter Type 8025 consists of:

- a remote Universal transmitter Type 8025 (wall-mounted or panel-mounted)
- a Bürkert flow sensor* or any (has to be ordered separately)

All these versions have as minimum: • a 4...20 mA

- a 4...20 mA current output (AO1)
- a digital output (DO1)
- two totalizers

Specifications	Voltage supply	Output	Relays	Sensor version	Electrical	Item no.
Universal transmitter, panel mounted	1236 V DC	1236 V DC 420 mA (3 wires) + pulse	None	see note	Terminal strip	419 538
			2	see note	Terminal strip	419 537
Universal transmitter, panel mounted		420 mA (3 wires)	None	see note	Terminal strip	564 416
UL-Recognized for US and Canada ()		+ pulse	2	see note	Terminal strip	564 417
Universal transmitter, wall-mounted	1236 V DC	420 mA (3 wires) + pulse	None	see note	3 cable glands	419 541
			2	see note	3 cable glands	419 540
	115/230 V AC	420 mA (3 wires) + pulse	None	see note	3 cable glands	419 544
		420 mA (3 wires) + pulse	2	see note	3 cable glands	419 543



8025 Transmitter REMOTE UNIVERSAL



Ordering chart - accessories for remote Universal transmitter Type 8025 (has to be ordered separately)

Specifications	Item no.
Spare part, panel version	
Mounting set (screws, washer, nuts, cable clips)	554 807
Seal	419 350
Set with 8 FLOW foils	553 191
Spare part, wall version	
Power supply board 115/230 V AC + mounting instruction sheet	555 722

8025 Transmitter REMOTE

burkert

The remote version

The 8025 remote transmitter can only be associated with Bürkert flowmeter 8020, 8030, 8070 with sinus or pulse output signal in a "Low Power" version.

When connected to a flowmeter, the device makes it possible to switch a solenoid valve, activate an alarm or generate a flow rate proportional frequency, thanks to a digital output and, for some versions, by means of two relay outputs, fully configurable, and to establish a control loop thanks to a 4...20 mA current output.

The 8025 is a flow transmitter with display, available in wall-mounted and panel versions:

Electrical data

The panel version

is made up of an electronics integrated in an open housing with display. The electrical connection is carried out on the terminal blocks of the electronic board



The wall-mounted version

is made up of an electronics integrated in a housing with cover, display. The electrical connection is carried out on the terminal blocks of the electronic board via 3 cable glands.



The device is equipped with a 4...20 mA current output (analogue output), a digital output (pulse output) and two totalizers.

Some versions are also fitted with two relay

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.

Technical data	
General data	
Compatibility	Bürkert flow sensor with frequency output 8020, 8030 or 8070 (pulse "Low Power" version).
Materials Housing, cover Front panel foil Screws Cable glands / Cable clips	PC (panel-mounted version); ABS (wall-mounted version) Polyester Stainless steel PA (wall-mounted version) / PA (panel-mounted version)
Electrical connections	Terminals (panel-mounted version) or terminals via cable gland (wall-mounted version)
Recommended cable	0.21.5 mm ² cross-section, shielded cable, 48 mm diameter (for the cable glands of the wall-mounted version)

Power supply (V+)	
Panel-mounted version	1236 V DC ±10%, filtered and regulated
Wall-mounted version	1236 V DC ±10%, filtered and regulated or
	115/230 V AC 50/60 Hz (see technical specifications 115/230 V AC)
Reversal polarity of DC	Protected
Current consumption with sensor	(without consumption of pulse output)
Version with relay	≤ 70 mA (at 12 V DC)
Version without relays	≤ 25 mA (at 12 V DC)
Transmitter input (from sensor)	
Frequency range	2.5400 Hz
	Pulse "Low Power" (open collector NPN)
Transmitter output (to sensor)	
Voltage supply	1034 V DC (= (V+) - 2 V DC),
Current consumption	max. current available from transmitter: 1 mA
Digital outputs	
Pulse	polarized, potential free, 536 V DC; 100 mA,
	protected, line drop at 100 mA: 2.5 V DC
Relay	2 relays, freely configurable, 230 V AC/3 A or
	40 V DC/3 A (resistive load)
Analogue output	
Current	420 mA (3-wire with relays; 2-wire without relay);
	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
420 mA output uncertainty	±1%
Technical specifications	Wall-mounted version:
115/230 V AC available inside the	Voltage supply: 27 V DC regulated,
device	Max. current: 250 mA
	Integrated protection: fuse 250 mA temporised
	Power: 6 VA
Environment	
Ambient temperature	-10+60°C (+32+140°F) (operation and storage)
·	

Standards, directives and approvals				
Protection class	IP65 (panel-mounted and wall-mounted version) device wired and cable glands tightened screwed tight IP20 (panel-mounted version, inside the cabinet)			
Approvals	CE; UL-Recognized for US and Canada (UL61010-1 + CAN/CSA-C22.2 No. 61010-1)			

Specific technical data of UL-recognized products for US and Canada			
Relay output 30 V AC and 42 V peak max./3 A or 60 V DC max./1 A			
Ambient temperature	-10+60°C (+14+140°F)		
Relative humidity	max. 80 %, without condensation		
Intended for an inner pollution	Pollution degree 2, according to EN61010-1		
Installation category Category I, according to UL61010-1			

8025 Transmitter REMOTE

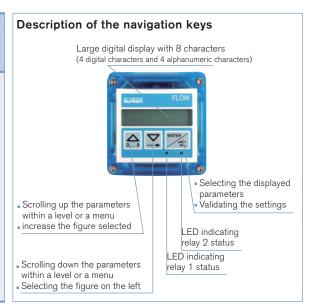


Operation and display

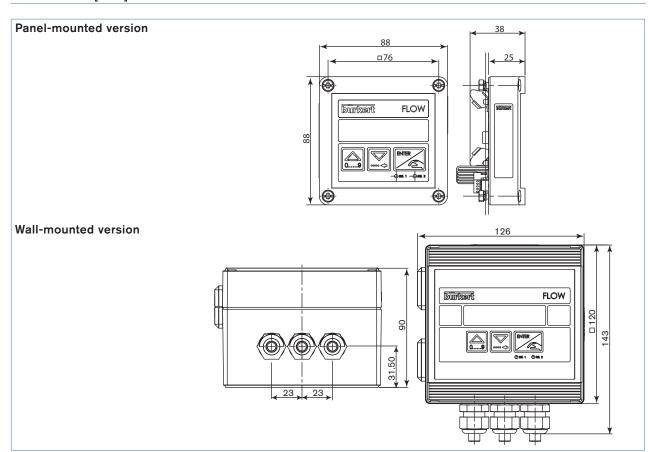
The device is calibrated by means of the K-factor which is either entered or determined via the Teach-In functions. User adjustments, such as measuring range, engineering units, pulse output and filtering level are carried out via the device operators interface.

The operation is specified according to two or three levels, depending on the flowmeter version:

	Indication in operating mode/display	Parameter definition	Test
Flow trans- mitter	flow rate output current main totalizer daily totalizer with reset function	Ilanguage engineering units K-factor/Teach-In function measuring range 420 mA pulse output relay (option) filter reset main totalizer	alteration of basic adjustment (offset, span) frequency test of sensor flow simulation



Dimensions [mm]



8025 Transmitter **REMOTE**



Ordering chart for remote transmitter Type 8025

Remote 8025 transmitter (panel- or wall-mounted) for connection to Bürkert "Low Power" flowmeter only.

A complete remote flow transmitter Type 8025 consists of:

- a remote transmitter Type 8025 (wall-mounted or panel-mounted)
- an INSERTION flowmeter Type 8020 or INLINE flow electronic SE30, (pulse "Low Power" version) (Refer to corresponding data sheet has to be ordered separately)
- an INSERTION fitting S020 (DN20 -DN400), INLINE sensor fitting S030 (DN06 DN65) or INLINE sensor fitting S070 (DN15 DN100) (Refer to corresponding data sheet - has to be ordered separately)

Specifications	Voltage supply	Output	Relays	Sensor version	Electrical con- nection	Item no.
Transmitter, panel mounted, 2 totalizers	1236 V DC	420 mA (2 wires) + pulse	None	8020/80301/80702)	Terminal strip	418 992
		420 mA (3 wires) + pulse	2	8020/80301/80702)	Terminal strip	418 994
Transmitter, panel mounted, 2 totalizers UL-Recognized for US and Canada	1236 V DC	420 mA (2 wires) + pulse	None	8020/80301/80702)	Terminal strip	552 725
		420 mA (3 wires) + pulse	2	8020/80301/80702)	Terminal strip	552 726
Transmitter, wall-mounted, 2 totalizers	1236 V DC	420 mA (2 wires) + pulse	None	8020/80301/80702)	3 cable glands	418 397
		420 mA (3 wires) + pulse	2	8020/80301/80702)	3 cable glands	418 396
	115/230 V AC	420 mA (2 wires) + pulse	None	8020/80301/80702)	3 cable glands	418 400
		420 mA (3 wires) + pulse	2	8020/80301/80702)	3 cable glands	418 399

^{1) 8030 =} SE30 + S030

NOTE: See the chart about compatible and recommended interconnection possibilities with Bürkert flowmeters on page 15 go to page



Ordering chart - accessories for remote transmitter Type 8025 (has to be ordered separately)

Specifica- tions	Item no.
Spare part, panel version	
Mounting set (screws, washer, nuts, cable clips)	554 807
Seal	419 350
Set with 8 FLOW foils	553 191
Spare part, wall version	
Power supply board 115/230 V AC + mounting instruction sheet	555 722

²⁾ 8070 = SE30 + S070

8025 Flowmeter INSERTION



Interconnection possibilities with other Bürkert flowmeters

Flowmeter Type	Remote 8025 version			
	Universal transmitter		Transmitter	
	Panel	Wall	Panel	Wall
8020 Hall version (short or long) - Frequency output with pulse signal (NPN, PNP, Open Collector)	Х	Х	-	-
8020 Hall "Low Power" version (short or long) - Frequency output with pulse signal (NPN, Open Collector)	Х	Х	Х	Χ
8030/8070 Hall version - Frequency output with pulse signal (NPN, PNP, Open Collector)	Х	Х	-	-
8030/8070 Hall "Low Power" version - Frequency output with pulse signal (NPN, Open Collector)	Х	Х	Х	Χ
8030 High temperature - Frequency output with pulse signal (NPN, PNP, Open Collector)	Х	Х	-	-
SE30 Ex	х	Х	-	-
8031 - Frequency output with pulse signal (NPN)	х	Х	-	-
8041 - Frequency output with pulse signal (NPN)	Х	X ¹⁾	-	-
8071 - Frequency output with pulse signal (NPN)	Х	Х	-	-

X = Compatible or recommended interconnection possibilities

1) except device with Item no. 419543

