Transmitter UNIVERSAL, remote version

- Displays both flow rate and volume (with two totalizers)
- On site calibration by Teach-In
- Simulation of all output signals

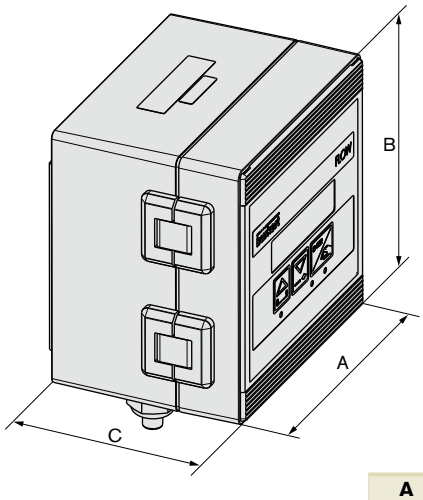
The 8025 universal flow transmitter with display, is available in wall-mounted and panel versions:

- **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.

Technical data

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
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	0.2 to 1.5 mm² cross-section, shielded cable, 4... 8 mm diameter (for the cable glands of the wall-mounted version)
Electrical data	
Power supply (V+)	
Panel- and wall-mounted version	12 - 36V DC (max tolerance: -5% or +10% at 12V VC; ±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	(without consumption of current output of the flow-meter)
Version with relay	≤ 90 mA (at 12 V DC); ≤ 45 mA (at 36 V DC); ≤ 55 mA (115/230 V AC)
Version without relays	≤ 60 mA (at 12 V DC); ≤ 30 mA (at 36 V DC); ≤ 40 mA (115/230 V AC)

Dimensions [mm] (see datasheet for further details)



A	B	C
126	120	90

Transmitter input (from sensor)	0.6 Hz to 2.2 kHz, can be adjusted -
Frequency range	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)	- with a 12 - 36 V DC powered transmitter: ▪ 10.5... 34.5 V DC [=(V+) - 1.5 V DC], 140 mA max. ▪ 0... 23.5 V DC [=(V+) - 12.5 V DC], 80 mA max. non regulated ▪ 5 V DC, 30 mA max.
Voltage supply	- 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.

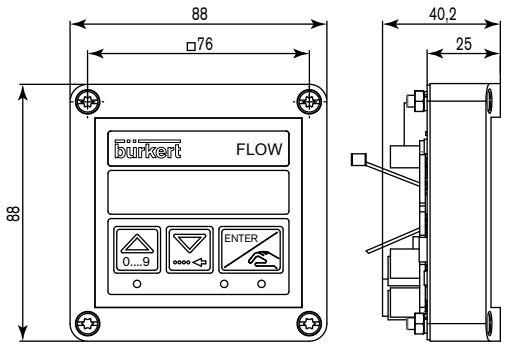
Technical data (continued)

Digital outputs	
Transistor (DO1)	NPN or PNP (wiring dependent), potential free Function: pulse output (by default), configurable 0.6 - 2200 Hz, 5 - 36 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)	4... 20 mA, sink or source (wiring dependent), 22 mA to indicate 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 measurement error	±1%
Technical specifications 115/230 V AC available inside the device	Wall-mounted version: Voltage supply: 27 V DC regulated, Max. current: 250 mA Integrated protection: fuse 250 mA temporised Power: 6 VA

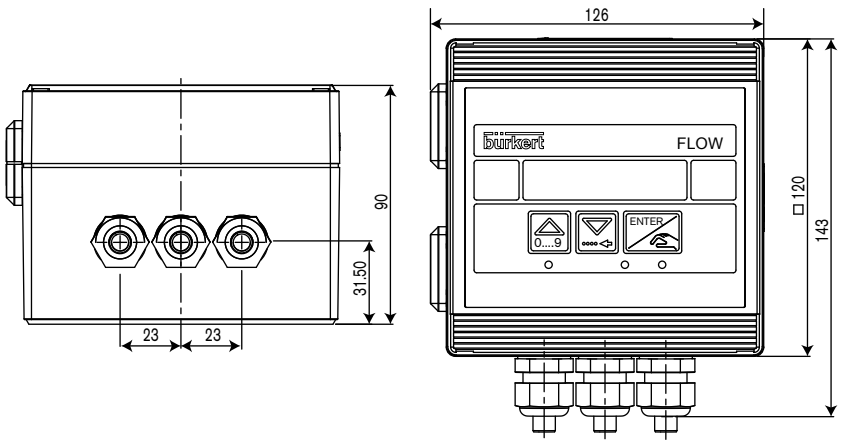
Environment	
Height above sea level	Max. 2000 m
Ambient temperature	-10 °C to +60 °C (14 to 140°F) (operation and storage)
Relative humidity	≤ 80%, without condensation
Standards, directives and approvals	
Standard	
EMC	EN 61000-6-2, EN 61000-6-3
Safety	EN 61010-1
Vibration	EN 60068-2-6
Shock	EN 60068-2-27
Protection class	IP65 (panel-mounted and wall-mounted version) device wired and cable glands tightened screwed tight IP20 (panel-mounted version, inside the cabinet)
Specific technical data of UL-recognized products for US and Canada	
Relay output	30 V AC and 42 V peak max. or 60 V DC max.
Ambient temperature	0 °C to +40 °C (32 to 104°F)
Relative humidity	max. 80 %, without condensation
Intended for an inner pollution	Grade of pollution 2, according to EN61010-1
Installation category	Category I, according to UL61010-1

Dimensions [mm]

Panel-mounted version



Wall-mounted version



Ordering chart

Version	Description	Voltage supply	Output	Relay	Electrical Connection	Item no.
Remote Transmitter Type 8025T						
Panel mounting	Universal transmitter, 2 totalizers	12 - 30 V DC	4 - 20 mA (3-wire) + pulse	none	Terminal strip	419 538
				2	Terminal strip	419 537
Wall mounting	Universal Transmitter, 2 totalizers	12 - 30 V DC	4 - 20 mA (3-wire) + pulse	none	3 cable glands	419 541
				2	3 cable glands	419 540
		115 - 230 V AC	4 - 20 mA (3-wire) + pulse	none	3 cable glands	419 544
				2	3 cable glands	419 543

Note regarding the ordering of a complete sensor for the Type 8025T remote Transmitter:
Please enter the appropriate sensor according to the Technical Data table regarding compatibility and select and order the respective INSERTION fitting and the selected sensor separately.

Accessories

Description	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

Extremely cool.

We don‘t testify our direct-acting plunger valve 2610 special coolness just because it allows temperatures of minus 200°C. On the contrary: the normally closed plunger valve can also take the heat – up to 180°C without any problems. The highlight of this temperature extreme: We isolated the coil from the housing with a metal bellow system, thus preventing both condensation build-up and excess coil heating. To top it off, we‘ve even integrated an energy saving effect: the “kick & drop” electronics assists during the opening process and then directly reduces the current to the holding power. That‘s pretty cool, too!

We make ideas flow.