



Advantages / Benefits

- ▶ Compatible with most low-flow sensors on the market
- ▶ Easy commissioning due to multi-language, menu-guided operation
- ▶ Volumetric flow measurement with two totalizers
- ▶ Easy processing by 4...20 mA output signal and pulse output
- ▶ Standard options:
 - 2 Alarm relays
 - Power supply 115/230 VAC
- ▶ Panel or wall mounted transmitter

Design

The low-flow transmitter 8025 in panel or wall-mount version is specially designed for connection to the most remote low-flow sensors on the market. So sensors with open collector output, relay reed output, TTL, CMOS or coil can be operated by this transmitter.

The device integrates the power supply for the sensor: 13...30 VDC in standard transmitter version, +12 or +27 VDC in 115/230 VAC powered transmitter version.

The transmitter produces a 4...20 mA standard signal proportional to the flow and provides a freely adjustable pulse output. Both signals can easily be transmitted and processed.

The display and operating elements allow a customized adjustment of all measuring parameters.

- Menu-guided operation:
 - multi-language
 - various engineering units
 - customized measuring ranges
- Volumetric flow measurement with two totalizers:
 - Display, memory and individual reset-function
- Standard options:
 - Freely programmable limit values with engineering units, thanks to two optional relays
 - Power supply: 115/230 VAC

Applications

Flow Measurement

Chemical industry
Pharmaceutical industry
Beverage and food industry
Water treatment

Batch-Control

Chemical dosing

Ideal system solutions for filling systems

bürkert
Easy Fluid Control Systems

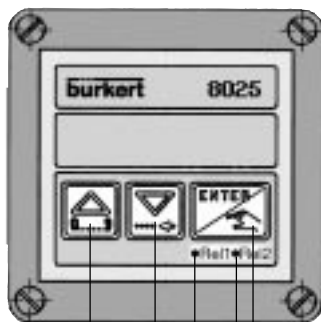
Digital Flow Transmitter

for continuous low-flow measurement and batch control

Type 8025

Low-Flow

Operation and display



- alter numerical value of selected digit
- run through menu, select digit
- relay 1 LED (option)
- relay 2 LED (option)
- confirm input and menu points

The operation is specified according to three levels:

- ▶ **Indication in operating mode**
 - flow
 - output current
 - main totalizer
 - daily totalizer and reset function
- ▶ **Parameter definition**
 - language
 - engineering units
 - K-factor / Teach-In function
 - measuring range 4...20 mA (zero/span)
 - pulse output
 - relay
 - filter
 - reset of main totalizer
- ▶ **Test**
 - alteration of basic adjustment (offset, span)
 - frequency test of sensor
 - flow simulation (dry-run test operation)

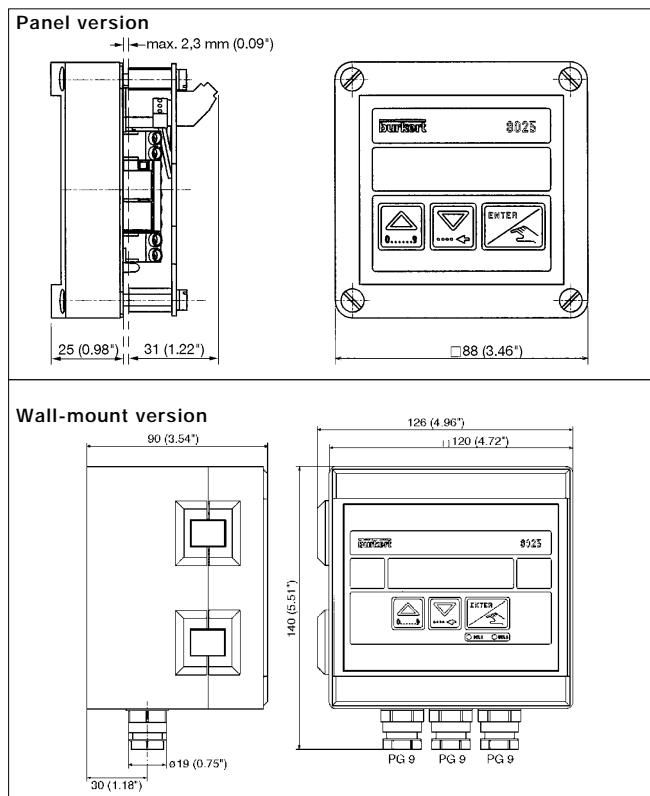
Technical data

Ambient temperature	0 to 60°C (32 to 140°F)
Storage temperature	-10 to 80°C (14 to 176°F)
Enclosure	IP 65 panel and wall-mount version (panel version IP20 in the cabinet inside)
Housing	PC (panel version), ABS (wall-mount version)
Front plate foil	polyester
Voltage supply	13...30 VDC Option: 115/230 VAC power supply for wall-mount version
Current consumption	60 mA (without relays), 100 mA (with relays)
Output signal current Load	4...20 mA max. 1300 Ω at 30V max. 1000 Ω at 24V max. 550 Ω at 15V max. 400 Ω at 12 V
Output signal pulse	Open collector NPN and PNP, 0...30 V, 100 mA, protected
Relay output (option)	freely programmable, 3 A, 230 V
Display	15 x 60 mm, 8-digit LCD-display, alphanumeric, 15 segments, 9 mm large

Typical compatible sensor specification

Measuring principle	Hall sensor, optic, inductive
Power supply	from transmitter: 13...30 VDC +12V or +27V with transmitter with 115/ 230 VAC power supply
Typical sensor outputs	Open collector NPN or PNP, reed relay (with 470Ω or 2,2kΩ resistance), coil, TTL, CMOS (with 100kΩ resistance)
Frequency	2,5 to 1400 Hz
K-factor	0,01 to 80000 pulse/liter
Minimal flow	0,025 ml/s
Accuracy	0,001 ml

Dimensions



Ordering Chart Low-Flow Transmitter Type 8025 / 8025 Batch Controller

Specifications	Version	Power supply	Cable entry	
Low-flow transmitter with 4...20 mA, pulse output, 2 totalizers	Panel	13-30 VDC	None	419 538 Z
Low-flow transmitter with 4...20 mA, pulse output, 2 totalizers, 2 relays	Panel	13-30 VDC	None	419 537 Q
Low-flow transmitter with 4...20 mA, pulse output, 2 totalizers	Wall-mount	13-30 VDC	3x PG 9	419 541 U
Low-flow transmitter with 4...20 mA, pulse output, 2 totalizers, 2 relays	Wall-mount	13-30 VDC	3x PG 9	419 540 F
Low-flow transmitter with 4...20 mA, pulse output, 2 totalizers	Wall-mount	115-230 VAC	3x PG 9	419 544 X
Low-flow transmitter with 4...20 mA, pulse output, 2 totalizers, 2 relays	Wall-mount	115-230 VAC	3x PG 9	419 543 W
Batch Controller for 8031 low flow sensor, 2 relays, 2 totalizers ¹⁾	Panel	12-30 VDC	terminals	419 536 P ¹⁾
Batch Controller for 8031 low flow sensor, 2 relays, 2 totalizers ¹⁾	Wall-mount	12-30 VDC	3x PG 9	419 539 S ¹⁾
Batch Controller for 8031 low flow sensor, 2 relays, 2 totalizers ¹⁾	Wall-mount	115-230 VAC	3x PG 9	419 542 V ¹⁾

¹⁾ max. input frequency: 750 Hz

In case of special application requirements,
please consult for advice.

We reserve the right to make technical changes without notice.
710-GB/ 2-0001