TABLE OF CONTENTS 8025 LOW FLOW

Dear Customer,

Congratulations on your purchase of our 8025 digital flow transmitter.

BEFORE INSTALLING OR USING THIS PRODUCT, PLEASE TAKE OUR ADVICE AND READ THE ENTIRE MANUAL THOROUGHLY.

This will enable you to fully profit from all of the advantages offered by this product.

1.1 Unpacking and Control

Please verify that the product is complete and free from any damage. The standard delivery must include:

-1 8025 digital Flow Transmitter, either or in panel version with mounting acessories (1 gasket, 4 spacer bolts, 1 protective plate, 4 screws, 4 lockwashers, 2 cable clips and 1 cut-away film), or in IP65 wall-mount version.
-1 Operating Instruction Manual.

Compare the Type specifications on the label to the adjacent list to ensure that you have received the proper unit. If there is any loss or damage, please contact your local Bürkert subsidiary.

1.2 About this Manual

This manual does not contain any warranty statement. Please refer to our general terms of sale and delivery.
Only properly-trained staff should install and/or repair this product. If difficulties should occur at the time of installation, please contact your nearest Bürkert sales office for assistance.

1.3 User's Responsibility for Safety

Bürkert manufactures a broad range of flow transmitters. While each of these products is designed to operate in a wide variety of applications, it is the user's responsibility to select a transmitter model that is appropriate for the application, install it properly, and maintain all components. Special attention must be paid to the chemical resistance of the transmitter against the fluids which are directly contacting the product.

This symbol appears in the manual to call special attention to instructions that affect the safe installation, function and use of the product.

1.4 Electromagnetic compatibility

This device conforms to the EMC-Directive of the Council of European Communities 89/336/EEC.
In order to comply with this directive, the wiring instructions must be followed.

2 SPECIFICATION 8025 LOW FLOW

2.1 Transmitter designation

Transmitter 8025 "LOW FLOW" Panel version

Designation	Power Supply	Order Nr
4...20 mA, 2 relays, pulse output, 2 totalizers	13-30 VDC	419538Z
4...20 mA, pulse output, 2 totalizers	13-30 VDC	419537Q

Transmitter flow 8025 "LOW FLOW" Wall-mounted version

Designation	Power Supply.	Order Nr
4...20 mA, 2 relays, pulse output, 2 totalizers	13-30 VDC	419541U
4...20 mA, pulse output, 2 totalizers	13-30 VDC	419540F
4...20 mA, 2 relays, pulse output, 2 totalizers	230 VAC	419544X
4...20 mA, pulse output, 2 totalizers	230 VAC	419543W

2.2 Sensor designation

Flow sensors for transmitter 8025 "LOW FLOW"

Measuring principle : Inductive, Hall effect or optical.
Power supply: 12 VCC to 30 VCC
Sensor output: Open collector R=2,2 KΩ ou 470 Ω
NPN; PNP or TTL.

Type	Gasket	Flow max l/min	K-Factor 2	Order Nr
8031	FPM	150	10200	783721V
8031	EPDM	150	10200	783722W
8031	FPM	600	3400	783724Y
8031	EPDM	600	3400	783725Z
8031	FPM	130	2350	006416M
8031	FPM	170	1000	006417N
8031	FPM	250	570	006418X
8031	FPM	360	335	006419Y
8031	FPM	720	165	006420V

1 PLease note the required power supply of your sensor to set switches of the transmitter 8025 LOW FLOW. (cf § 3.3.1)

2 Please note the K-Factor of the sensor to allow the setting of the transmitter 8025 "LOW FLOW" (cf § 4.3.3)

2.3 Design and Measuring Principle

Design

The panel version consists of an electronic board integrated in a front-cover.
The output signals are available on terminal strips on the electronic board.

The wall-mount version consists of a transducer with display in a splash-proof plastic IP65 enclosure.
The output signals are provided on a terminal strip inside the electronical enclosure via 3 PG 9.

Measuring Principle

The sensor produces pulses, which frequency is proportional to the flow.
The transducer has a measuring range of 2,5 to 1400 Hz corresponding to a flow range from 0,025 ml/s to 12884 l/s.
A 4...20 mA standard output signal proportional to the flow is available.
The transducer requires a power supply of 13...30 VDC.
The thresholds values of the transducer with two additional relays are freely adjustable.

OPTION: The flow transmitter in wall-mount version can be fitted with a 115/230 VAC power supply.

2.4 Technical Data

Operational conditions:

Ambient temperature	0 to 60°C (32 to 140°F)
Storing temperature	0 to 60°C ((32 to 140°F)
Relative humidity	80 % max
Enclosure	wall-mount version IP65 (ABS) panel version IP20 (rear plate);IP65 (front plate); PC
Power supply:	13...30 VDC (115/230 VAC option panel version)
Consumption	60 mA (without relay) or 100 mA (with relays)
Output signal:	4....20 mA programmable, proportional to the flow.
Max load:	1300 Ω at 30 V 1000 Ω at 24 V 550 Ω at 15 V 400 Ω at 13 V
Pulse	NPN or PNP, 5-30 V, 30 mA protected, adjustable.
Display	15x60 mm LCD 8 digits, alphanumeric 15 segments
Relay output (optional)	2 adjustable relays 3 A, 220 VAC

Sensor specification:

Type:	Hall sensor, optic, inductive
Power supply	according to transmitter power supply (13..30 VDC) + 12 V to + 27 V (115/230 V power supply option)
Pulse (square or sinusoïd)	NPN, PNP, open collector with 470 Ω or 2,2 KΩ resistor
Input voltage	200 mV mini; 30 V max
Frequency	2,5 to 1400 Hz
K Factor	min 0,01; 80000 max
Flow min	0,025 ml/s
Resolution	0,001 ml

2.5 Dimensions

Panel version

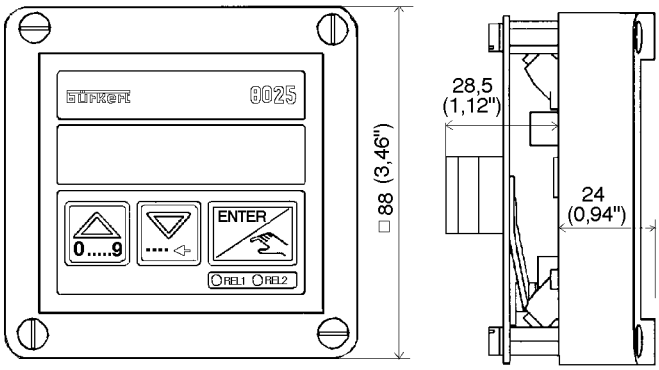


Fig. 2.1 Dimensions 8025 Transmitter panel version

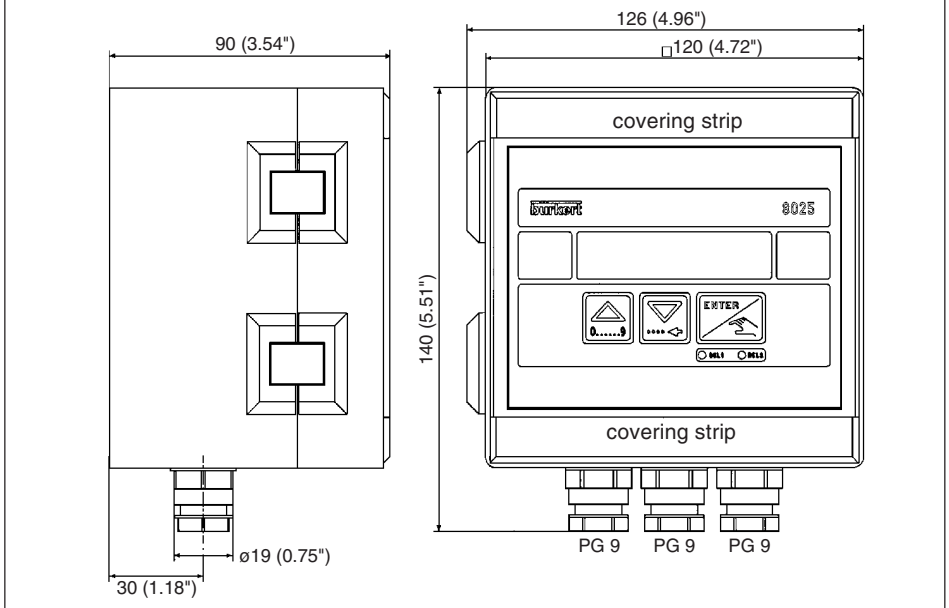


Fig. 2.2 Dimensions 8025 Transmitter wall-mount version

3.1 InstallationGuidelines

Panel version

For the cut-away of the front panel, follow the instructions on the enclosed delivery film. Install device as follows:

1. Put gasket 2 on the cover 1 and place the complete unit in the panel cut-away.

2. Screw the spacer bolts 3 on the panel fixing screws 4.

3. Insert the cable clips 10, to hold the different cables (power supply, outputs, sensor) of the transmitter, into plate 7.

4. Set the switches SW100 and SW101 (cf 3.3)

5. Plug connector 5 on socket 6 and fasten plate 7 with screws 9 on bolts 3. Do not forget the lockwashers 8.

Mount the sensor according to specific instruction manual.

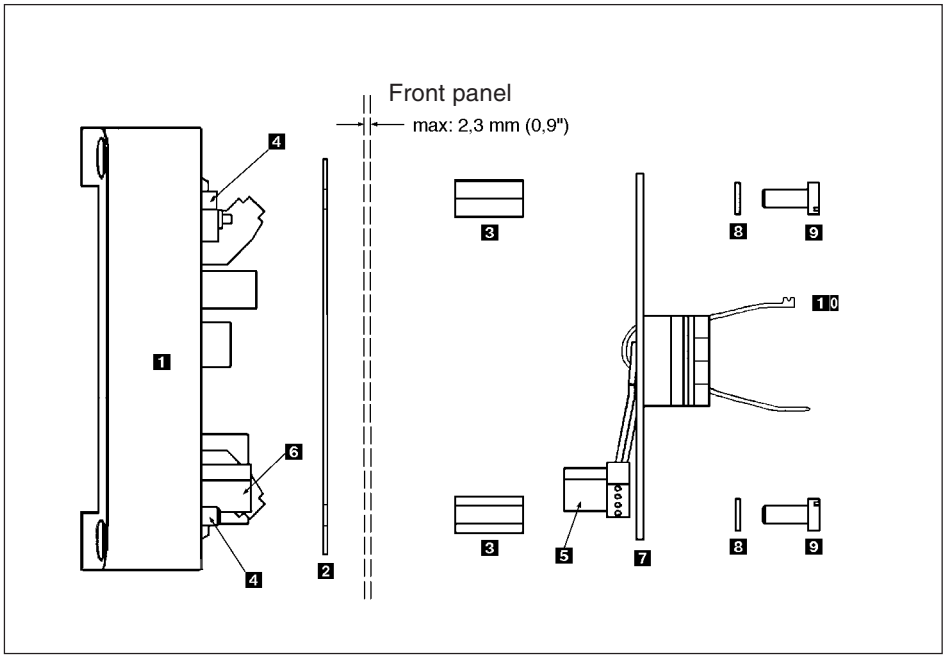


Fig. 3.1 Installation panel version

3.1 Installation Guidelines

Wall-mount version

The flow transmitter in wall-mount version has 4 fixing holes in the bottom enclosure. Remove the white blanking stripes and the cover to access to fixing holes **1**. For sensor installation, please consult specific instruction manual.

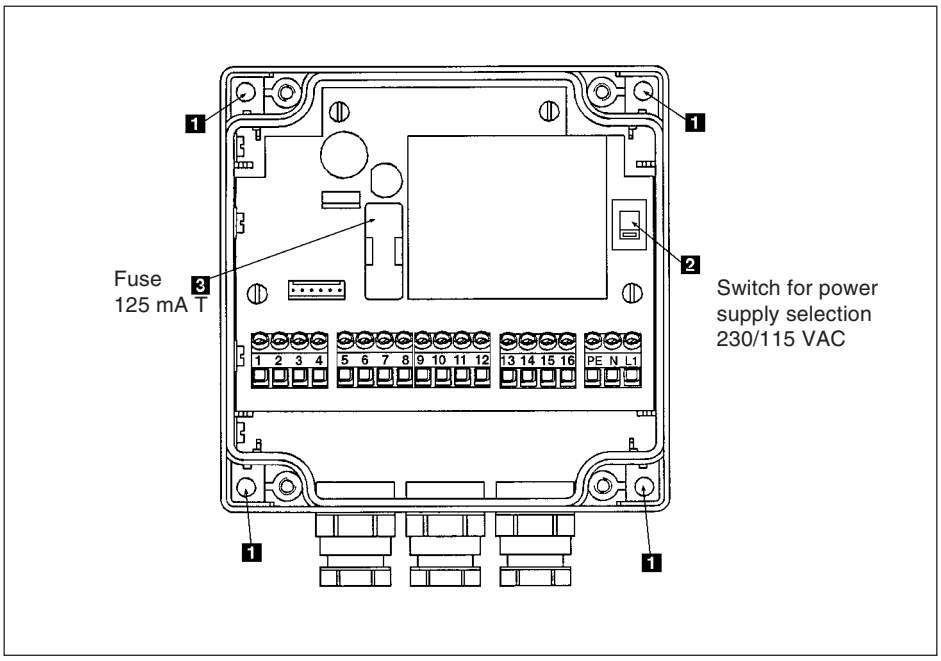


Fig. 3.2 Installation wall-mount version

3.2 Setting of sensor type

Set the switches SW100 and SW101 according to output signal and power supply of the connected sensor.

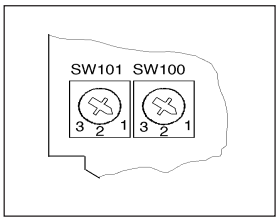


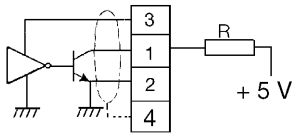
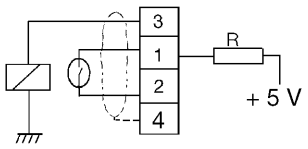
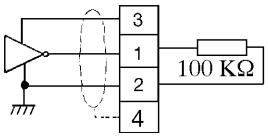
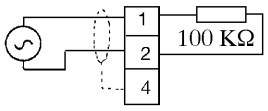
Fig. 3.3 Sensor type switches

SW101	Sensor Power supply
1	None
2	+12 V
3	+27 V (115/230 VAC version; external power supply or 13-30 VDC Version)

SW100	Output signal
1	Open collector, relay Reed Load R=2,2 KΩ
2	Open collector, relay Reed Load R=470 Ω
3	TTL; CMOS; coil Load R=100 Ω

Switch SW100 and SW101 before setting power supply.

3.2.1 Connection and switch setting

Sensor output standard	Sensor Connector Transmitter
① Open collector SW100 = 1 (R = 2,2 KΩ) SW100 = 2 (R = 470 Ω) Flow sensor type 8031	
② Relay REED SW100 = 1 (R = 2,2 KΩ) SW100 = 2 (R = 470 Ω)	
③ TTL SW100 = 3 (R = 100 KΩ)	
④ Coil SW100 = 3 (R = 100 KΩ)	

Switch SW100 and SW101 before setting power supply.

3.3 General Electrical Connection

The connecting line conducts the measuring signal and must not be installed in combination with high voltage or high frequency carrying lines. If a combined installation cannot be avoided, either keep a min. space of 30 cm (approx. 1 ft) or use coax cables. When using coax cables observe faultless grounding of the shield. For normal operating conditions, the measuring signal can be transmitted by a simple cable of 0.75 mm^2 cross section. In case of doubt, always use a coax cable.The power supply must be of good quality (filtered and regulated).

For EMC purposes,the earth must be connected to the transmitter and, eventually, to the sensor.

3.4 Connection of the pulse and current output to a PLC

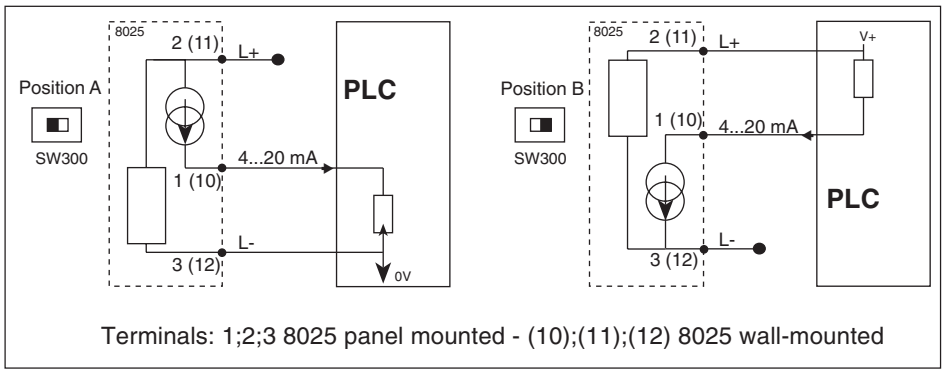


Fig. 3.4 Switch position for PLC connection and current output

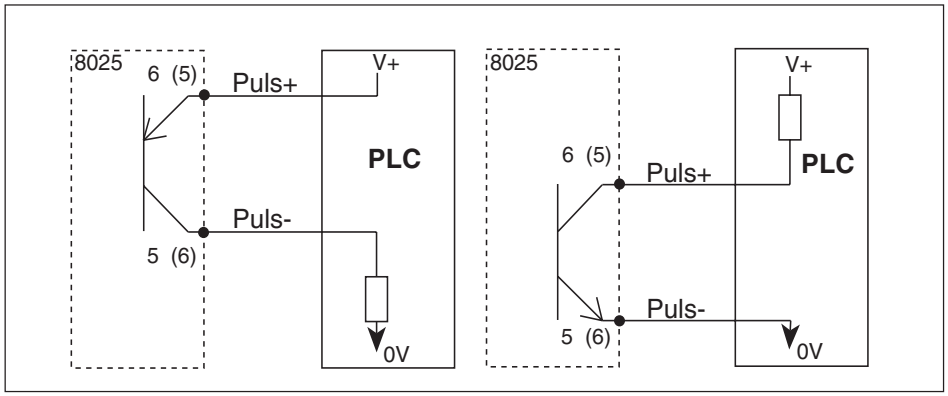
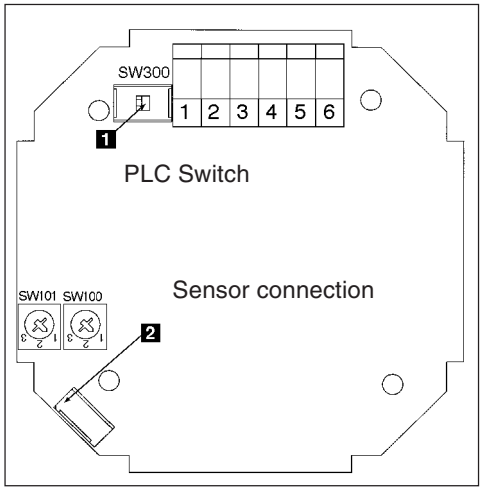


Fig. 3.5 Pulse output connection to a PLC

3.5 Electrical connection 8025 "LOW FLOW" panel version

3.5.1 8025 Transmitter without relay



Electronic card connector
Pins connection:
1:4...20 mA
2: L+ (13...30 VDC)
3: L-
4: Earth (Earth lug)
5: Pulse output ⊖
6: Pulse output ⊕

Fig. 3.6 Electronic card 8025 without relay

Note: PLC-connection. Depending on the PLC-version, the switch **1** on the circuit board must be put to position A or B (see Fig. 3.4 and 3.6).

Sensor connection:

4: Earth
3: L+
2: GND
1: Pulse
see also § 3.7

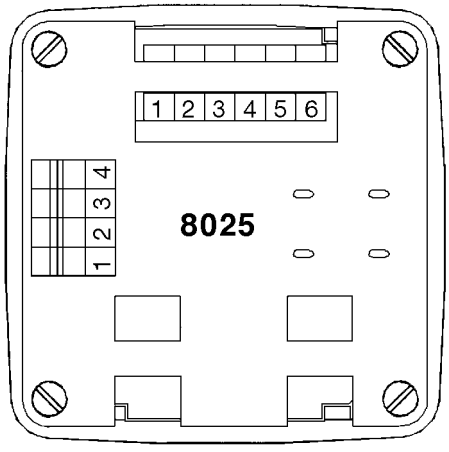


Fig. 3.7 Connection card 8025 without relay.

3.5.2 Type 8025 "LOW FLOW" panel version with relays

Electronic card connector
Pins connection:
1: 4...20 mA
2: L+ (13...30 VDC)
3: L-
4: Earth (earth lug)
5: ⊖ pulse ouput
6: ⊕ pulse output
7: Relay 2
8: Relay 2
9: Relay 1
10: Relay 1

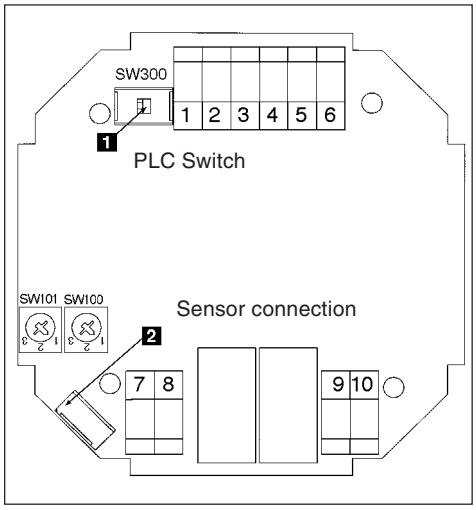


Fig. 3.8 Electronic card 8025 with relays

Note: PLC-connection, depending on the PLC-version, the switch **1** on the circuit board must be set in position A or B (see Fig. 3.4 and 10)**.**

Sensor connection:

4: Earth
3: Power
2: GND
1: Pulse
see also § 3.7

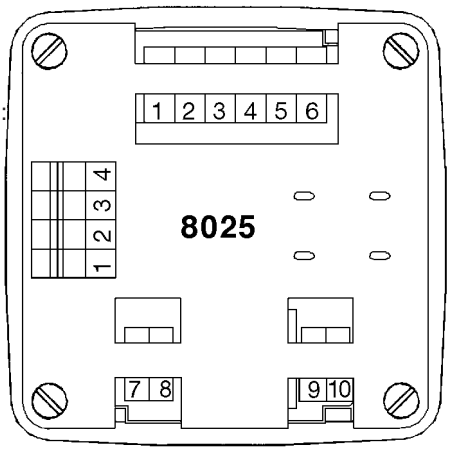


Fig. 3.9 Connection card 8025 with relays

3.6 Electrical wiring 8025 "LOW FLOW" wall mounted version

3.6.1 Electrical wiring 8025 "LOW FLOW" wall-mounted 13-30 VDC

Open the cover to access the terminals. Wire according to transmitter version and to the following figures.

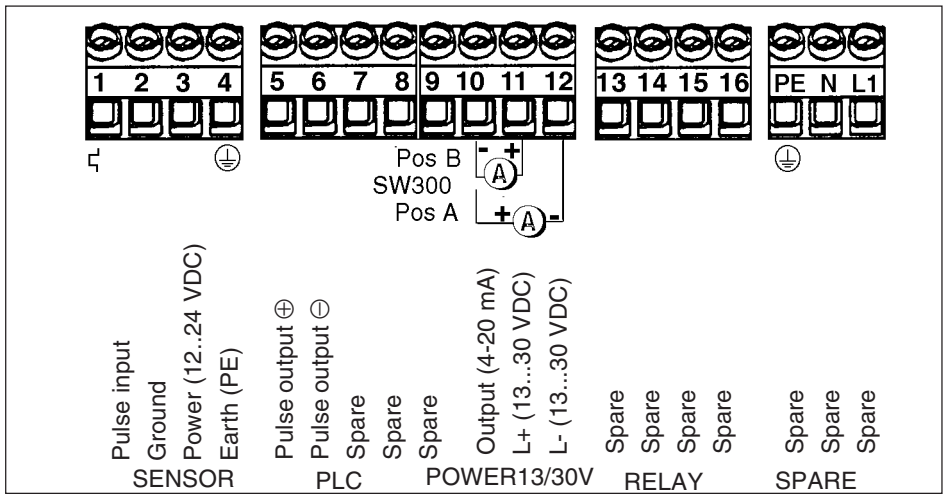


Fig. 3.10 13..30 VDC Power supply - without relay

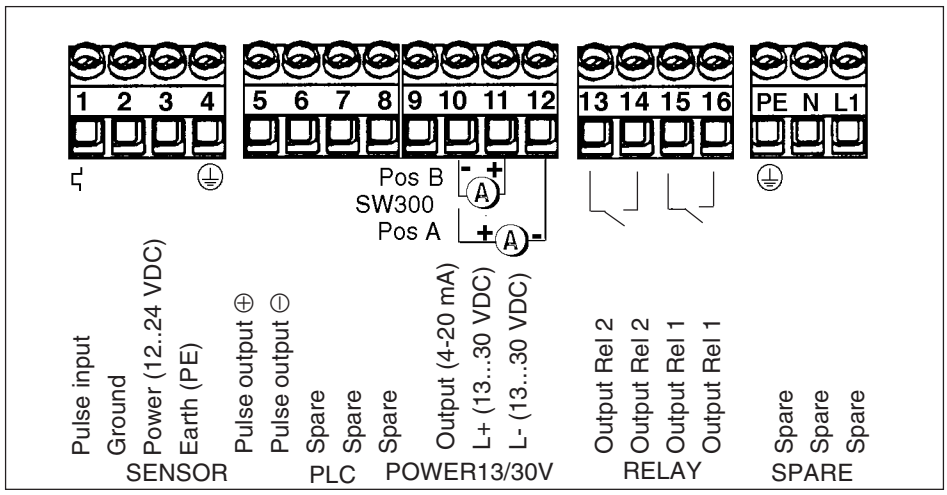


Fig. 3.11 13..30 VDC Power supply- with relays

3.6.2 Electrical wiring 8025 wall-mounted version 115-230 VAC

Open the cover to access the terminals. Wire according to transmitter version and to the figures 3.12 and 3.13.

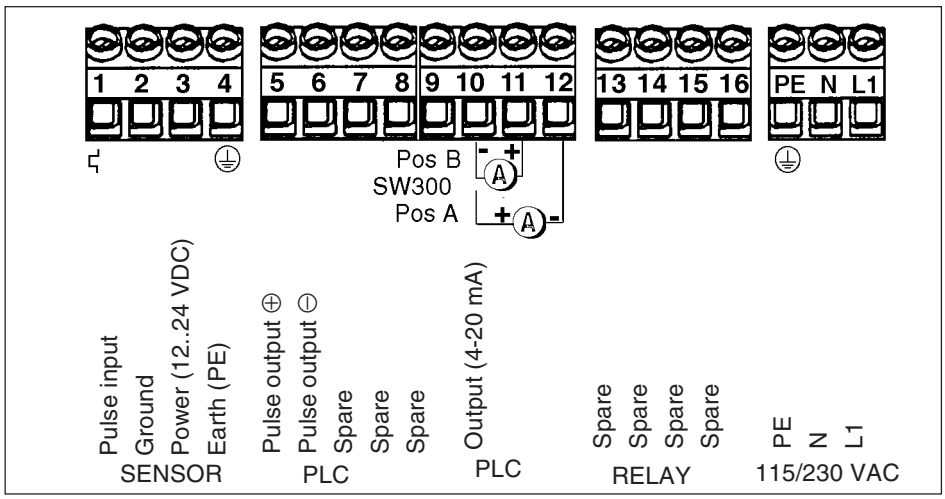


Fig. 3.12 115..230 VAC Power supply - without relay

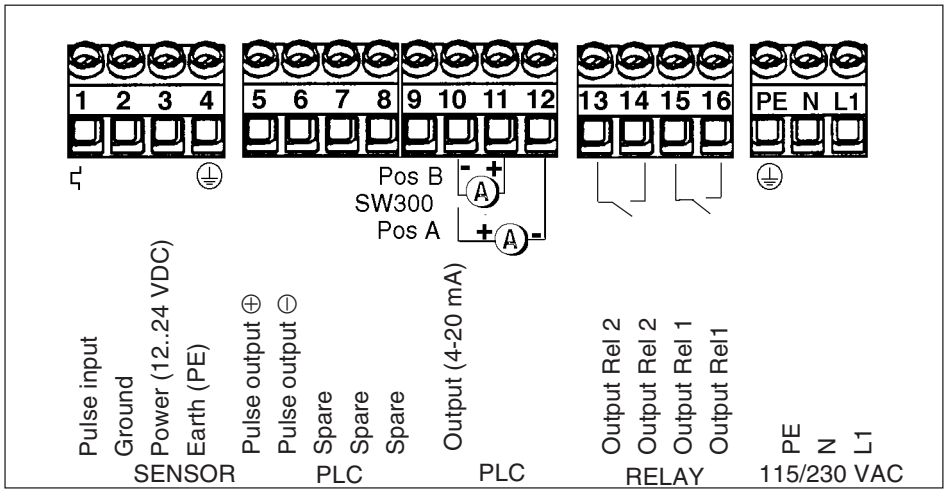


Fig. 3.13 115..230 VAC Power supply - with relays

Warning: Check the position of the power supply selection switch, before starting the device (fig. 3.2.)

3.7 Connection of the flow sensor type 8031 "LOW FLOW"

3.7.1 Transmitter 8025 "LOW FLOW" panel version

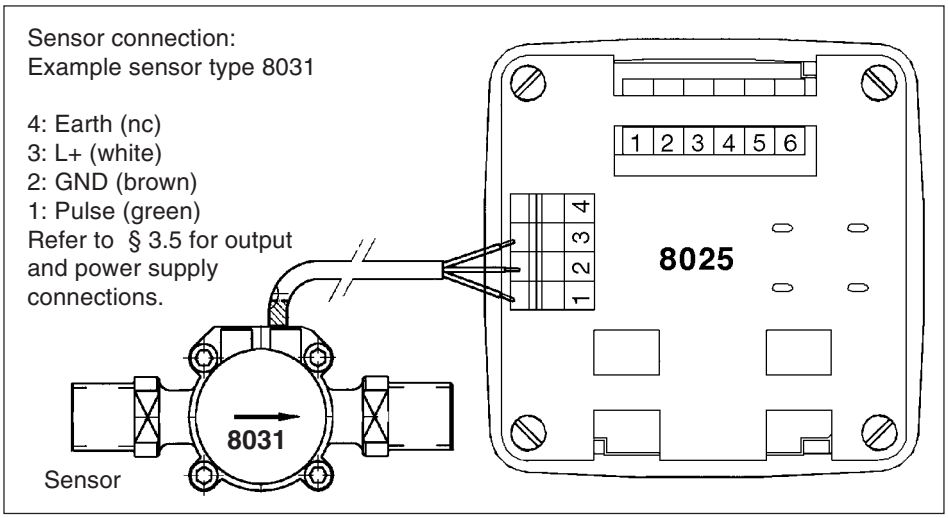


Fig. 3.14 Connection of the flow sensor type 8031 (8025 Panel version)

3.7.2 Transmitter 8025 "LOW FLOW" wall-mounted version

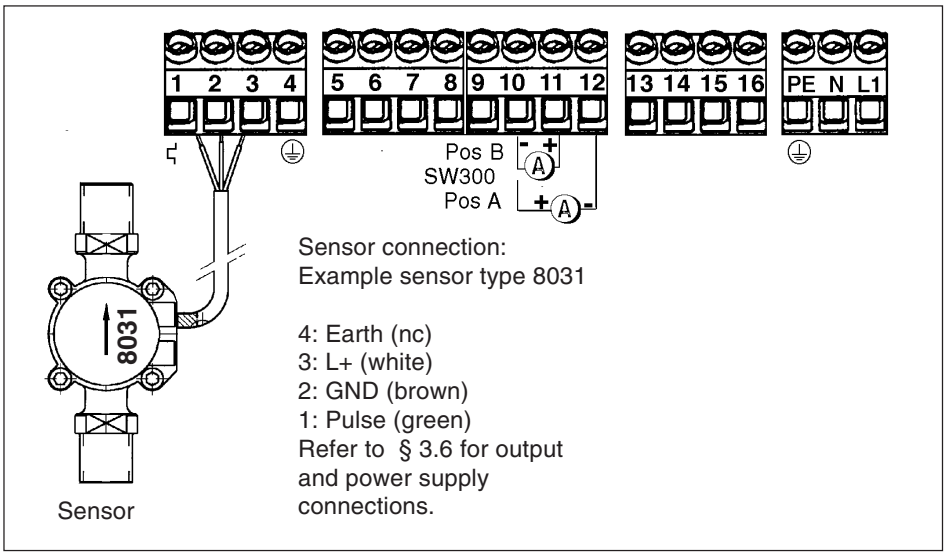


Fig. 3.15 Connection of the flow sensor type 8031 (8025 wall-mounted version)

The operation of the 8025 is classified according to three levels.

A) Display

This menu displays flow, output current, main totalizer and daily totalizer. The daily totalizer can also be reset in this menu.

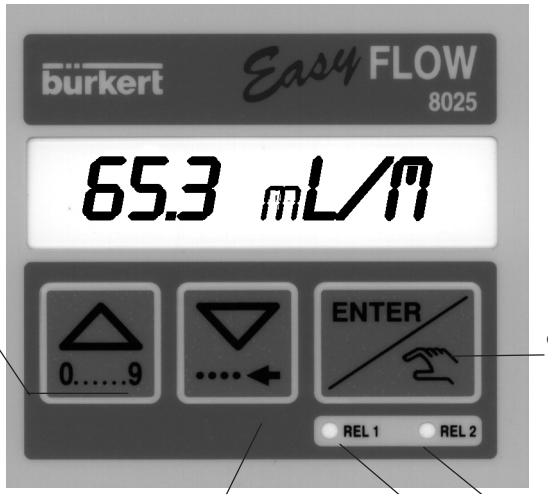
B) Parameter Definition

All the necessary settings, such as the language, engineering units, K-factor, 4...20 mA measuring range, pulse output, relay and filter are carried through in this menu.
Here, the main, as well as the daily totalizer are simultaneously reset.

C) Testing

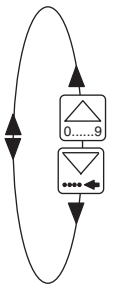
A flow can be simulated in this menu, which allows to test a process in the "dry-run condition".
This menu also displays the sensor frequency and allows to change the basic settings (Offset, Span) of the device.

4.1 Transmitter Operating and Control Elements



4.2 Operation Mode Display

The following variables are displayed in the operation mode:



45,6 L/m — Flow rate in the required engineering unit (see calibration menu).

16,45 mA — 4...20 mA output signal, proportional to the flow according to the selected measuring range

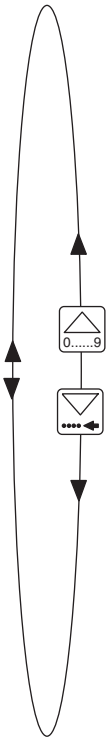
80529 L — Main totalizer in the required engineering unit (see calibration menu). Reset in the calibration menu.

6247 L. — Daily totalizer in the same engineering unit as the main totalizer. A point behind the unit differentiates it from the main totalizer. Reset by simultaneously pressing the  keys for 2 seconds.

4.3 Calibration Mode

Press   simultaneously for 5 seconds

The following variables can be set in the parameter definition menu:



LANGUAGE — Language selection between English, German, French and Italian.

UNIT — Selection of engineering units to display flow rate and totalizer.

K-FAKTOR — Input of K-factor according to chart or Teach-in function in order to determine the specific K-factor.

CURRENT — Setting of the 4...20 mA measuring range.

PULSE — Parameter definition of pulse output (unit and quantity).

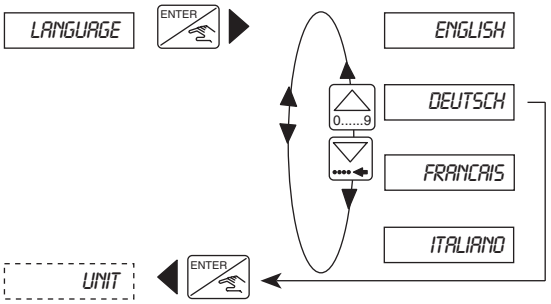
RELAY — Parameter definition of relays. This message only appears if the relay option has been installed.

FILTER — Dampening selection. There are ten different steps available.

TOTAL — Totalizer resetting.

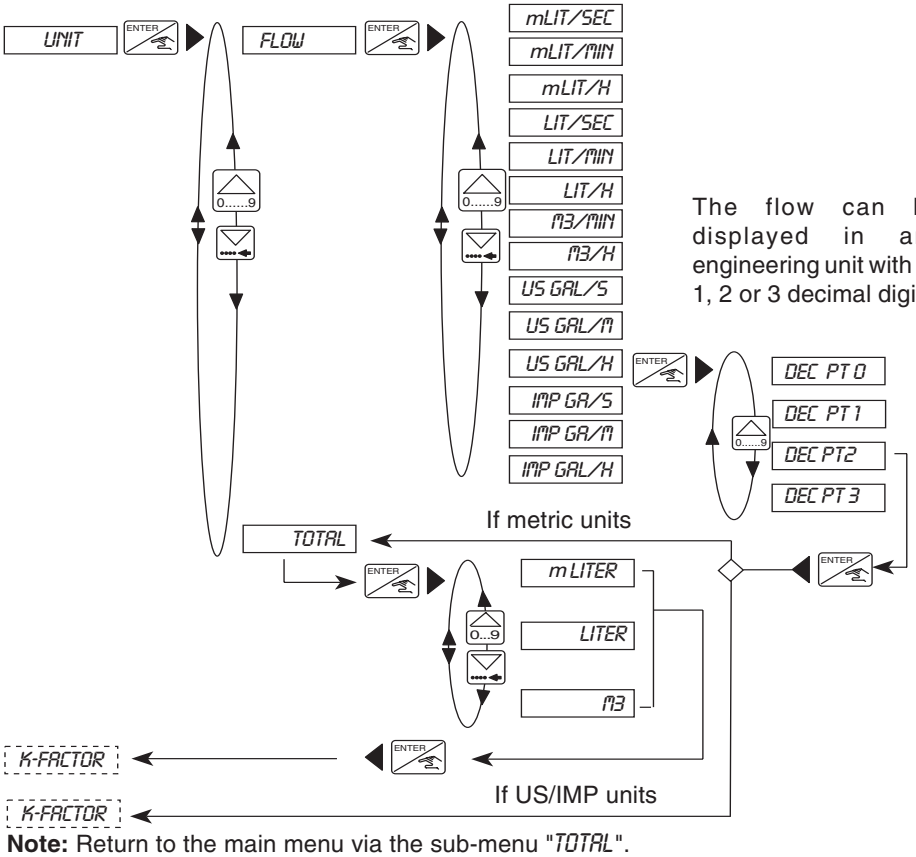
END — Return to operation mode and storage of new parameters.

4.3.1 Language



The required language is confirmed and activated via the Enter-key.

4.3.2 Engineering Units

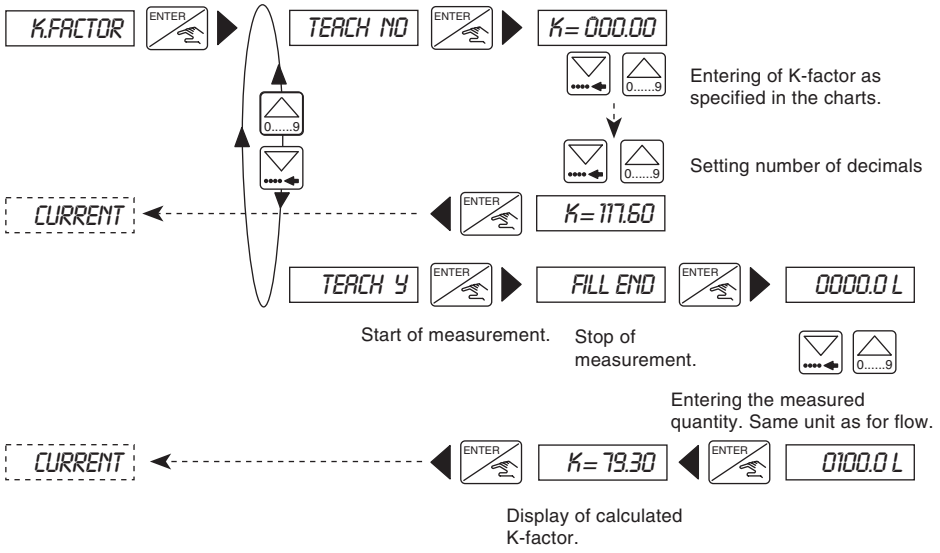


The flow can be displayed in any engineering unit with 0, 1, 2 or 3 decimal digits.

Note: Return to the main menu via the sub-menu "*TOTAL*".
The "TOTAL" menu is only activated for metric units. Choose of US (or IMP) flow units enforces US (or IMP) units for volume measurements.

4.3.3 K-Factor

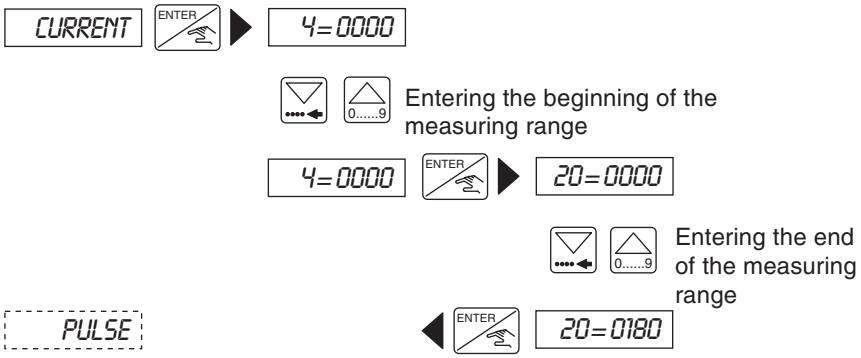
Enter the K-factor of the fitting in this menu (min 0.01 ... max 80000). The "Teach in" function allows to practically detemine the application specific K-factor. The user only needs to run a known quantity of liquid through the system.
Example: In order to determine a quantity as accurately as possible, fill a tank of 100 litres. When the message "*TEACH YES*" appears, press the Enter key to start the measuring procedure. The message "*FILL END*" (end of filling) will appear. Then switch on a pump or open a valve. As soon as the tank is full, switch off the pump or close the valve. Pressing Enter stops the measurement. Finally enter the measured volume (100 liters). The calculated K-factor is displayed after validation.
Note: The transmitter uses the last entered or determined K-Factor.



Note: A decimal point can be entered by simultaneously pressing keys 0.....9 . It will always be positioned to the right of the flashing digit. Two positions are possible, «*0000.0*» or «*000.00*»

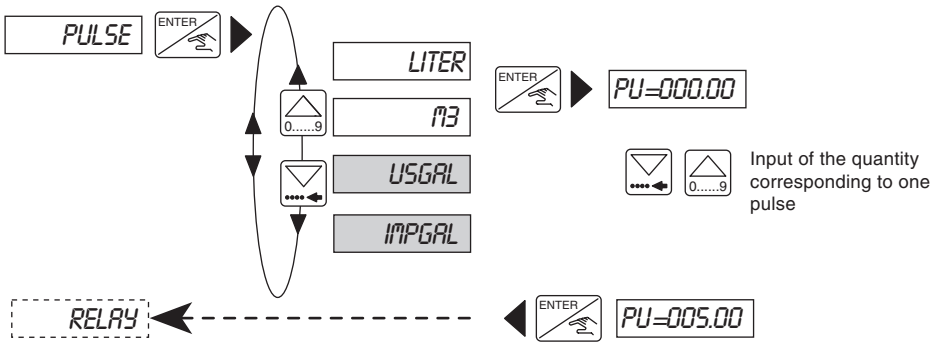
4.3.4 Output current

The measuring range of the flow, corresponding to the 4...20 mA output current is entered here, i.e. 0 to 180 l/min corresponds to 4...20 mA. The beginning of the measuring range can be larger than the end of it, i.e. 0 to 180 l/min corresponds to 20...4 mA (inverted output signal).
The settings (unit and decimal place), as selected for the flow indication will apply.
Check the acceptability of max values and minimum difference in §5.3.



4.3.5 Pulse output

In this menu, the parameters of the pulse output are defined, and the volume corresponding to one pulse is entered. First enter the unit, then the value.
Example: 1 impulse corresponds to 5 L

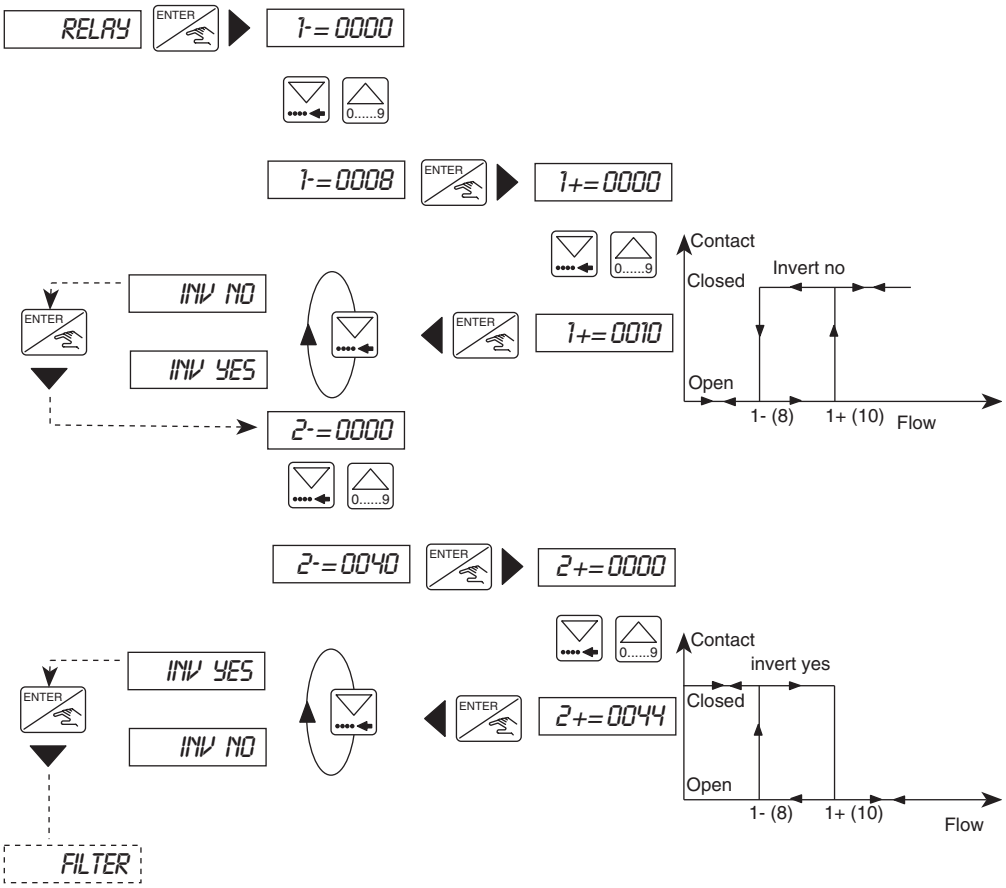


The impulse unit is set by the flow unit. Metric unit will be m^3 or Liter

4.3.6 Relay

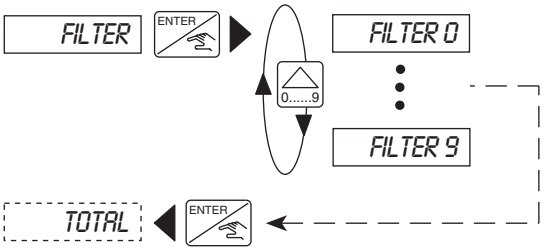
The parameter definition of the limit contacts is done in this menu. Two limit values are entered for each relay ; 1- and 1+ or 2- and 2+. The user also has the possibility to invert the relays. The unit and decimal place, as selected in the sub-menu "*UNIT*" are activated.Check the acceptability of max values in §5.3.

Caution! The following condition must be observed: 1- ≤ 1+, 2- ≤ 2+.



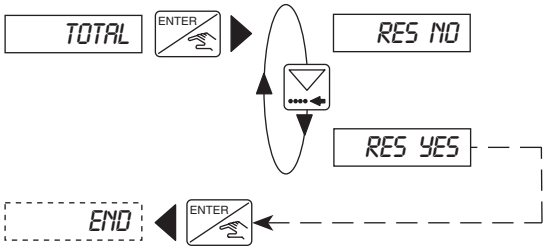
4.3.7 Filter

The damping is specified in this sub-menu. The low pass filter prevents fluctuations of the display and output current.There are ten levels available. The first level ("*FILTER 0*") has no damping effect.



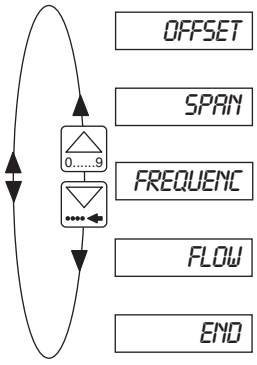
4.3.8 Totalizer

The main and daily totalizers are reset in this menu. The reset procedure only starts when Enter is pressed, at the "*END*" position in the parameter definition menu.



4.4 Test Menu: Press 0.....9 ENTER simultaneously for 5 seconds

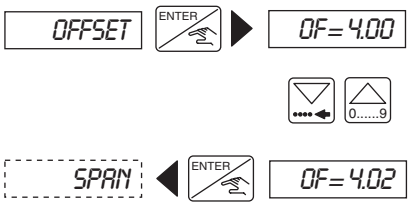
The following compensations and tests are carried through in the test menu:



OFFSET	Zero-compensation (4 mA).
SPAN	Span-compensation (20 mA).
FREQUENC	Indication of sensor frequency.
FLOW	Entering the flow rate to be simulated. The outputs will react in accordance to this input.
END	Return to the operation mode and storage of new parameters for OFFSET and SPAN. If one of the two values is erroneous, the device point on "OFFSET", and new values must be entered.

4.4.1 Offset-compensation

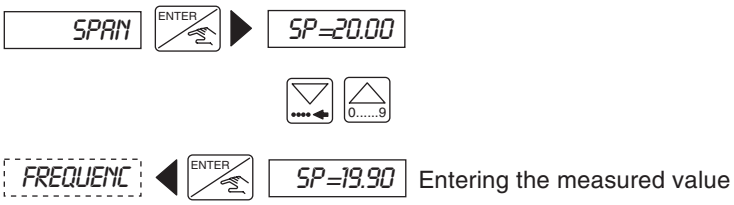
Here, the customer has the option to correct the basic setting of 4 mA. He only needs one current meter. When Enter is pressed while "*OFFSET*" is displayed, the transmitter produces 4 mA. If this value is incorrect, it can be corrected by entering the measured value.



Entering the measured value

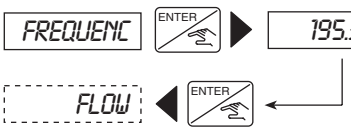
4.4.2 Span-compensation

Here, the customer has the option to correct the basic adjustment of 20 mA. The procedure is identical to the Off-set procedure. When Enter is pressed while "*SPAN*" is indicated, the transmitter produces 20 mA. If this value is incorrect, it can be corrected by entering the measured value.



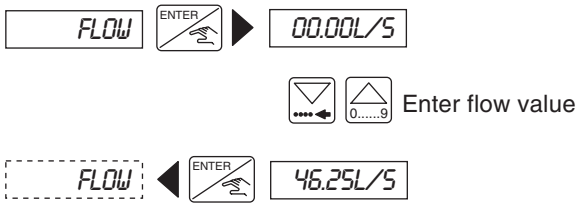
4.4.3 Frequency display

Here, the sensor frequency is displayed until the Enter key is pressed.



4.4.4 Flow simulation

A flow can be simulated in this menu. This allows the user to test his system without any liquid. Even though the simulated value influences the output current and the relays, it has no impact on the pulse output. Unit and decimal place, as selected in the sub-menu "*UNIT*" are active.



The simulation is active until the user enters into another sub-menu.

5.1 Trouble-shooting

The message "*ERROR*" on the display indicates that calibration data has been lost. By pressing ENTER, the user can access the operation menu but the device works with the factory settings (see §5.2). The transmitter must be re-calibrated. If this message appears more often, please return the product to the factory.

Please refer to specific manual for the sensor maintenance.

5.2 Factory-settings of 8025 "LOW FLOW" transmitter at Delivery

Language:		English	Relay:	1-:	00.10
Unit of flow:		L/s		1+:	00.50
Unit of totalizers:		L		Invert:	YES
Decimal points:		2		2-:	00.10
K-factor:		100.00		2+:	02.00
Current:	4 mA:	00.00		Invert:	YES
	20 mA:	00.00	Filter:		Filter 2
Pulse output	unit:	L			
	PU:	000.10			

5.3 Limit values for setting 8025 "LOW FLOW" transmitter.

Flow	**Current 4...20 mA**		**Switch Relais**
Unit	**max value**	**mini difference**	**max value**
ml/s	1.400.000/K	100/K	1.400.000/K
ml/min	84.000.000/K	6.000/K	84.000.000/K
ml/H	5.040.000.000/K	360.000/K	5.040.000.000/K
l/s	1.400/K	0.1/K	1.400/K
l/min	84.000/K	6/K	84.000/K
l/H	5.040.000/K	360/K	5.040.000/K
m^3/s	1,4/K	0,0001/K	1,4/K
m^3/min	84/K	0,006/K	84/K
m^3/H	5.040/K	0,36/K	5.040/K
US gal/s	1.400/K	0.1/K	1.400/K
US gal/min	84.000/K	6/K	84.000/K
US gal/H	5.040.000/K	360/K	5.040.000/K
Imp gal/s	1.400/K	0.1/K	1.400/K
Imp gal/min	84.000/K	6/K	84.000/K
Imp gal/H	5.040.000/K	360/K	5.040.000/K

5.4 Spare parts

Spare parts 8025 panel version

Item	Designation	Order Nr
1	Cover with screws, front panel and electronic card Transmitter 8025 "LOW FLOW" without relay.	425528M
2	Cover with screws, front panel and electronic card Transmitter 8025 "LOW FLOW" with relays	425529N
3	Gasket	419350Q
4	Protective plate	419779J
5	Mounting accessories (screws, lockwashers, spacer bolts, cable clips)	418388A
	Instruction manual	419566V

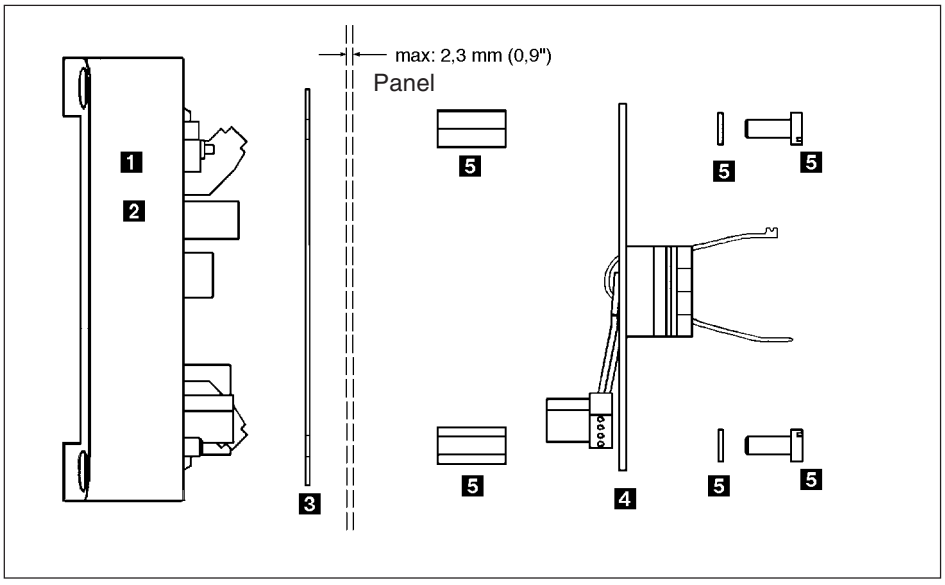


Fig. 5.1 Spare parts explosion drawing panel version

Spare parts 8025 wall-mount version

Item	Designation	Order Nr
6	Electronic card 8025 "LOW FLOW" without relay with F6 software	425411G
7	Electronic card 8025 "LOW FLOW" with relays and F6 software	425410K
8	Power card 12...30 VDC	419639E
	Power card 230/115 VAC	419640K
9	Connection cable between power card and electronic card	420403Y
10	Complete IP65 enclosure	418389B
	Instruction manual	419566V

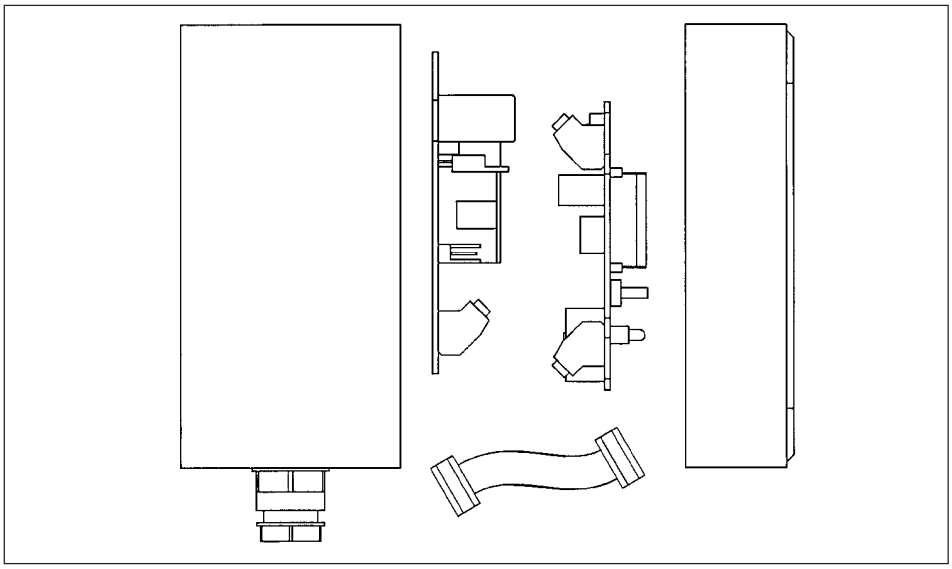
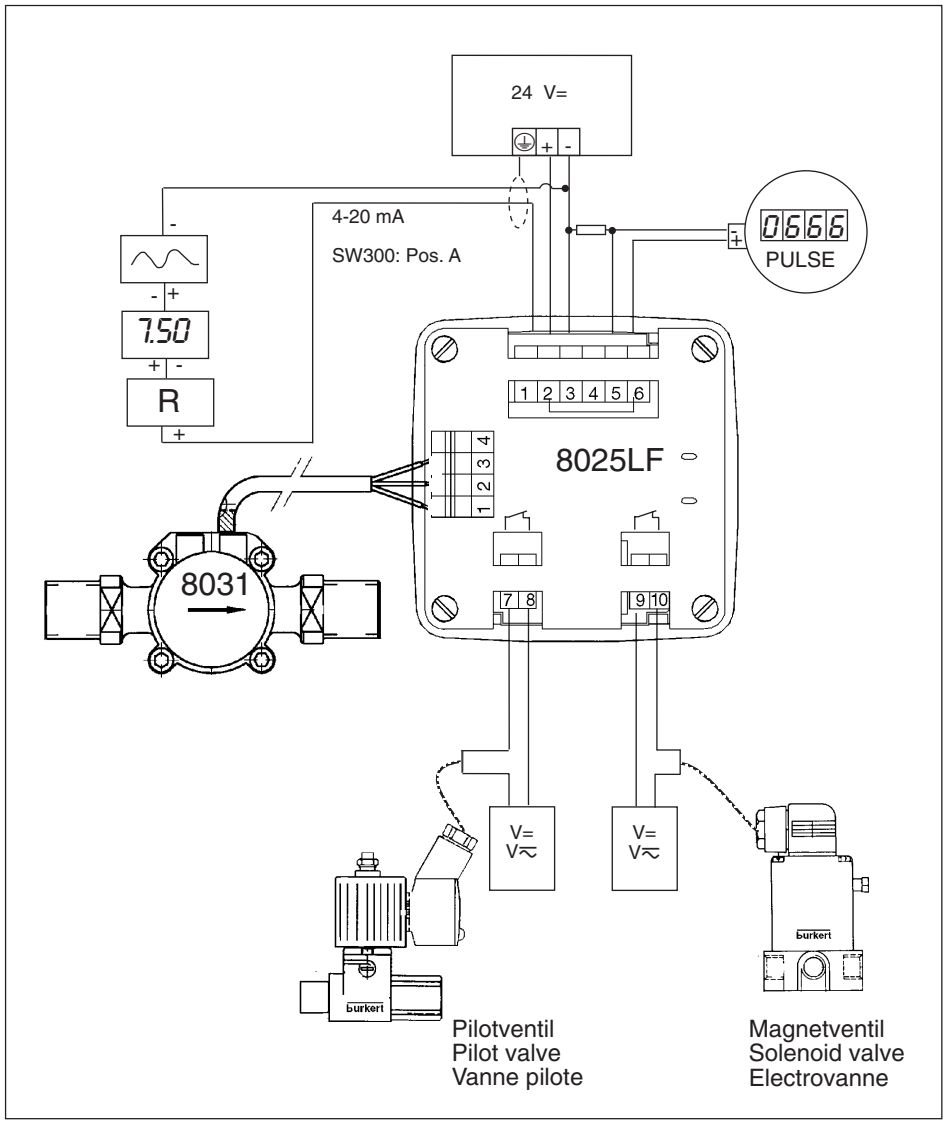
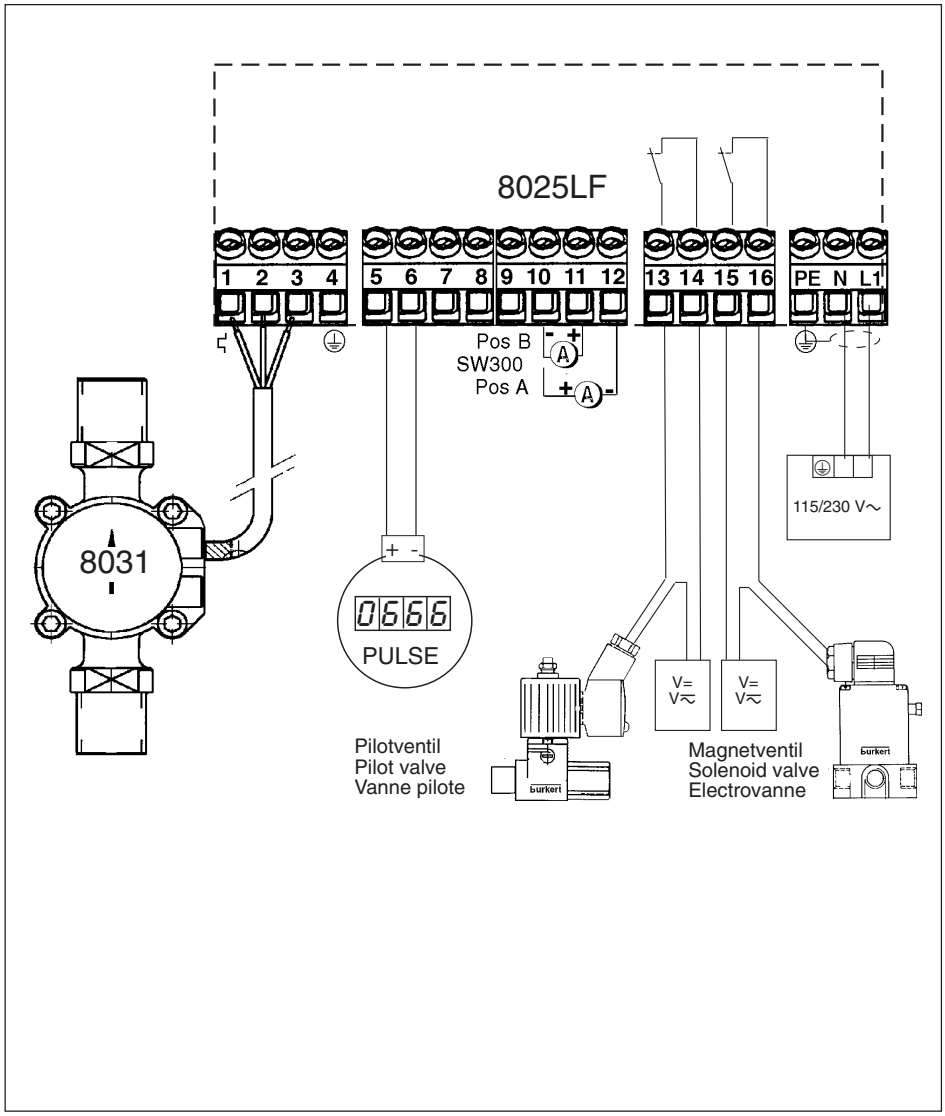


Fig. 5.2 Spare Parts Explosion Drawing Wall-mount Version



Beispiel - Example - Exemple: *Easy* LINK
Anschluss Durchfluss Transmitter 8025 Schalttaffel 13-30 VDC mit Relais
Connection flow transmitter 8025 Panel 13-30 VDC with relays
Connexion transmetteur de débit 8025 Encastré 13-30 VCC avec relais
Type 8031: See also § 3.7 - Siehe auch § 3.7 - Voir § 3.7



Beispiel - Example - Exemple: *Easy* LINK
Anschluss Durchfluss Transmitter 8025 Wandmontage 115/230 VDC mit Relais
Connection flow transmitter 8025 wall-mounted 115/230 VDC with relays
Connexion transmetteur de débit 8025 mural 115-230 VCC avec relais
Type 8031: See also § 3.7 - Siehe auch § 3.7 - Voir § 3.7

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