

Read-out

DF405/DF406 universal



Description

The DF405/DF406 is a read-out which has been developed for use with most sensors.

The read-out is available in both a built-in model and a surface-mounted model.

Both the sensor's analogue output and frequency output can be used as input for the read-out.

The current flow rate is given on the 8-figure LED display. It can also be configured to display the total flow (of course, with a reset).

An LED is used to indicate whether the display shows the flow rate or the total flow.

The flow sensor's incoming signal is scalable in the read-out, so that default settings are no longer necessary for the customer.

The DF405/DF406 has two independent, freely programmable potential-free contacts for switching at preset values.

The read-out can be combined with all types of flow sensor and transmitter. The supply voltage for the sensors is provided by the read-out device.

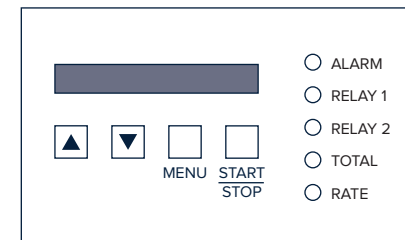
The DF406 model has an extra analogue output, which can be connected to, for example, a GBS system. This output is scalable and can be related to the input signal.

On request, the software can be customized to meet your specific wishes.

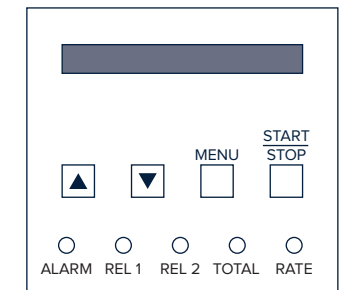
Technical specifications

Technical specifications DF405/DF406	
Supply voltage:	230 VAC/50 Hz or 24 VDC
Current consumption:	230 VAC > max 70 mA 24 VDC > max 650 mA
Output supply:	24 VDC < 5 VA
Surface-mounted model dimensions:	116.6 x 184 x 133.7 mm
Built-in model dimensions:	96 x 96 x 120 mm
Display:	8-digit, 7-segment, LED
Colour:	Green
Character height:	7 mm
Accuracy:	0.1% of the calibrated flow
Input signal:	<ul style="list-style-type: none"> • 0-5V • 0-20 mA • Frequency (pulse) • 0-10V • 4-20 mA
Configurable units:	m ³ /h, l/h, l/min, m/s, Optional
Display output:	<ul style="list-style-type: none"> • Rate (current flow) • Total (total flow) Resettable
Analogue output signal DF406	<ul style="list-style-type: none"> • 0-20 mA • 0-5V • 4-20 mA
Relay:	2 relays, freely configurable and independent of each other. 230 VAC - 6 A loadable

Surface-mounted model display:



Built-in model display:



Surface-mounted model

Connection diagram

Block A:

- 1 = 230 VAC Supply voltage in
- 2 = 230 VAC Supply voltage in
- 3 = \pm earth } if necessary

Block B:

- 1 = Power 24 VDC + in
- 2 = Power 24 VCC - in
- 3 = 24 VDC - out } supply sensor
- 4 = 24 VDC + out } supply sensor
- 5 = Analogue + in
- 6 =
- 7 = Frequency in
- 8 = Analogue + out (DF406)

- 9 = Relay 1 } C(ommon)
- 10 = Relay 1 } N(ormally) O(pen)
- 11 = Relay 1 } N(ormally) C(losed)

- 12 = Relay 2 } C(ommon)
- 13 = Relay 2 } N(ormally) O(pen)
- 14 = Relay 2 } N(ormally) C(losed)

Installation

1.

- Connect the power supply to 230 VAC
- A1 = blue
- A2 = brown
- A3 = green/yellow (earth)

or

- B1 = 24 VDC +
- B2 = 24 VDC -

2.

- Sensors:** a) Frequency output
- b) Analogue output

a) Frequency sensors

- B3 = 24 VDC -
- B4 = 24 VDC +
- B7 = π signal

b) Analogue sensors

- | | |
|--------------------|----------------|
| 3-wire | 2-wire |
| B3 = 24 VDC - | |
| B4 = 24 VDC + | B4 = 24 VDC + |
| B5 = mA (V) signal | B5 = mA signal |

It is possible to connect two analogue sensors (B5 and B6)

3. Relay (x2)

- B9 = C(ommon) relay 1
- B10 = N(ormally) O(pen) relay 1
- B11 = N(ormally) C(losed) relay 1

- B12 = C(ommon) relay 2
- B13 = N(ormally) O(pen) relay 2
- B14 = N(ormally) C(losed) relay 2

Built-in model

Connection diagram

Blok A:

- 1 = 230 VAC Supply voltage in
- 2 = 230 VAC Supply voltage in
- 3 = \pm (earth) in } if necessary
- 4 = \pm (earth) out } if necessary
- 5 =
- 6 =

Blok B:

- 1 = Power 24 VDC + in
- 2 = Power 24 VDC - in
- 3 = 24 VDC - out } supply sensor
- 4 = 24 VDC + out } supply sensor
- 5 = Analogue + in
- 6 =
- 7 = Frequency in
- 8 = Analogue + out (DF406)

- 9 = Relay 1 } C(ommon)
- 10 = Relay 1 } N(ormally) O(pen)
- 11 = Relay 1 } N(ormally) C(losed)

- 12 = Relay 2 } C(ommon)
- 13 = Relay 2 } N(ormally) O(pen)
- 14 = Relay 2 } N(ormally) C(losed)

Installation

1.

- Connect the power supply to 230 VAC
- A1 = blue
- A2 = brown
- A3 = earth in } if necessary
- A4 = earth out } if necessary

or

- B1 = 24 VDC +
- B2 = 24 VDC -

2.

- Sensors:** a) Frequency output
- b) Analogue output

a) Frequency sensors

- B3 = 24 VDC -
- B4 = 24 VDC +
- B7 = π signal

b) Analogue sensors

- | | |
|--------------------|----------------|
| 3-wire | 2-wire |
| B3 = 24 VDC - | |
| B4 = 24 VDC + | B4 = 24 VDC + |
| B5 = mA (V) signal | B5 = mA signal |

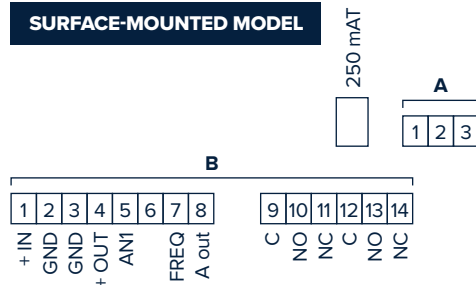
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- B11 = N(ormally) C(losed) relay 1

- B12 = C(ommon) relay 2
- B13 = N(ormally) O(pen) relay 2
- B14 = N(ormally) C(losed) relay 2

SURFACE-MOUNTED MODEL



BUILT-IN MODEL

