

# **OC35-F OC35-FD**

## **FLOW TRANSMITTER**

Owner's manual

**ORBIT CONTROLS AG**

Zürcherstrasse 137  
CH-8952 Schlieren/ZH

**Tel: +41 1 730 2753**

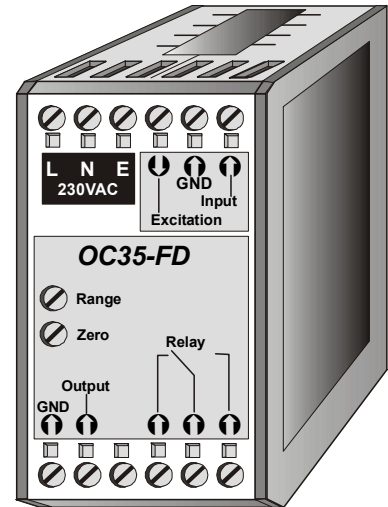
**Fax: +41 1 730 2783**

**[www.orbitcontrols.ch](http://www.orbitcontrols.ch)  
[info@orbitcontrols.ch](mailto:info@orbitcontrols.ch)**



## Flow Transmitter OC35-F and OC35-FD

- ✓ Frequency Input
- ✓ Analog Output 4-20mA or 0-10V
- ✓ Liter Pulses - Output
- ✓ Relay or Transistor Output
- ✓ Excitation for the flowmeter
- ✓ Flow Monitor
- ✓ Batch Controller
- ✓ Cabinet for 35 mm DIN Rail
- ✓ Supply 230V AC or 24V DC



**Models OC35-F and OC35-FD** are Transmitters converting the unknown frequencies into analog output signals 4-20mA or 0-10V. The required frequency range is determined with jumpers inside the instrument and can be set for nearly any industrial sensor or flowmeter with output frequencies up to 10 kHz.

**The Transmitter OC35-FD** offers a five digit programmable divider with output transistor or mechanical relay. Depending on the setting of the divider, output pulses are generated after each liter, gallon, kg, pound etc. The transmitter delivers the momentary flow rate and the cumulated flow units at the same time.

The transmitters are supplied with 230V AC or 24V DC and are enclosed in DIN cabinet for 35mm rail mount. Excitation of 12VDC is available for supplying of external sensors and flowmeters.

### SPECIFICATIONS

Input:	Positiv pulses 5V, protected to 28V.
Range:	0 - 10 kHz. Four ranges are available with jumpers inside the instrument: <i>Installed ranges:</i> 0-450Hz, 0-600Hz, 0-800Hz and 0-1200Hz <i>Customer range:</i> 0-50Hz ... 0-10kHz with a plugable resistor.
Output:	0/4 - 20mA or 0 - 10V for the selected frequency range. 0/4mA (0 V) and 20mA (10 V). Two Potentiometers for fine adjustment.
Accuracy:	± 0.1% from value.
Divider:	<b>OC35-FD only:</b> Five code switches for settings :1 to :99999. Output 100ms pulse duration The output can be additionally divided by :10.
Output:	<b>OC35-FD only:</b> NPN Transistor with open collector, 60V-100mA or a mechanical relay 5A-230V AC.
Excitation:	12VDC-25mA for external sensors and flowmeters.
Supply:	230V ±10%, 48 ... 60Hz. Option: 24VDC (18 ... 36V)
Cabinet:	DIN-case for 35mm DIN-Rail

Standard Frequency Ranges  
OC35-F and OC35-FD

For Analog Output 4-20mA or 0-10V

Ranges	Jumper		Code Switch	Digit
0 - 1200 Hz	A		:1	0
0 - 800 Hz	B		:10	0
0 - 600 Hz	C		:100	5
0 - 450 Hz	D		:1000	4
Customer Setting	E plus Rg1		:10 000	3

Customised Ranges

Frequency Range	Rg 1
0 - 50 Hz	118 k
0 - 100 Hz	56 k
0 - 200 Hz	30 k 1
0 - 400 Hz	15 k

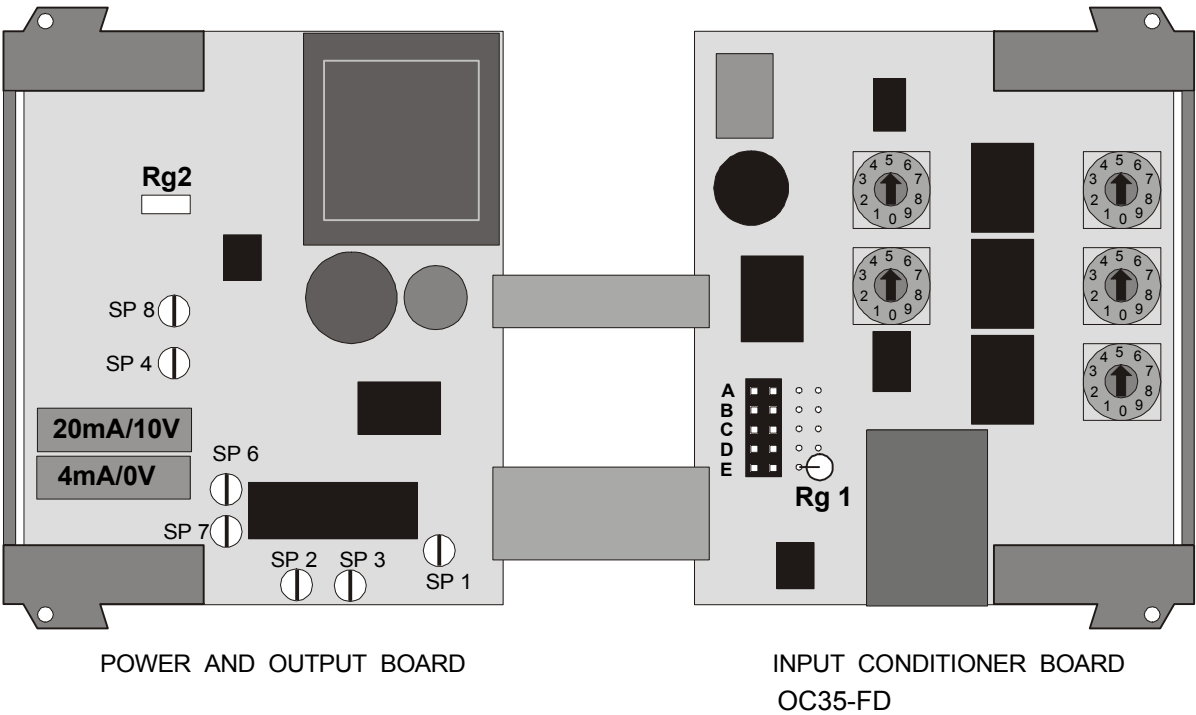
Current Outputs

Output	SP 1	SP 2	SP 3	SP 6		Output	SP 4	SP 6	SP 7
0-20mA	closed	closed	open	closed		Current Output	closed	closed	open
4-20mA	open	open	closed	closed		Voltage Output	closed	open	closed
5-25mA	closed	open	closed	closed		SP1-SP3 without influence to the voltage output			

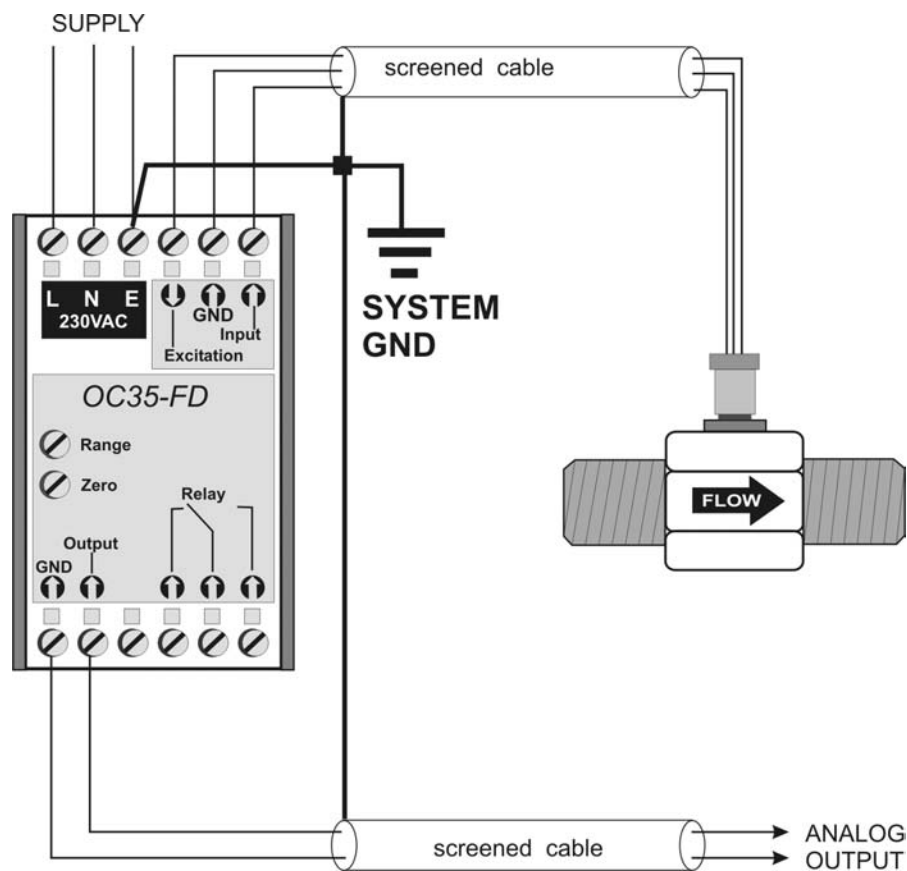
Programmable Divider  
OC35-FD only

Example: Output Pulse generated after  
34500 Input Pulses from the internal VFC.

Selection: Voltage or Current



## RECOMENDED CONNECTIONS



**Orbit Controls** is a manufacturer of Laboratory and Process Calibrators, Digital Instrumentation and Positioning Systems. To the main products belong System Calibrators, Three Phase Calibrators, Hand Held Calibrators, High Value Resistor Decades, Resistor Simulators, Capacitance Decades as well as programmable Counters, Tachometers, Flow Controllers, Batch Counters, Proces Controllers for analog signals, Data Loggers, Digital Linearizers, Switch Point for analog signals, Large Displays and Bargraphs, Transmitters and high precision positioning sensors.

For more information please call our customer service Tel. + 41 1 730 2753 or Fax + 41 1 730 2783 or visit our web pages [www.orbitcontrols.ch](http://www.orbitcontrols.ch).