

Switching transmitter TU 7050

Complete monitoring - safely!



Switching transmitter for Turbotron flow sensors - Remote mount version

The TU 7050 is a two channel switching transmitter for use with all Turbotron Series flow sensors. Pulse signals from flow sensors operate a dual set of galvanically insulated, dry contacts which in turn, may be used to activate alarms. Set point adjustments are allowed, in up to 16 increments, via a pair of rotary switches set into the module's front panel. The rear panel contains the DIN rail mounting assembly.

Two selectable modes are available:

- **Mode A**

Two identical turbine flow sensors operate one set point each.

- **Mode B**

One turbine flow sensor operates a pair of alarm set points (pre-alarm & main alarm or min & max).

The TU 7050 provides a failsafe mechanism as any malfunction of the flow sensor would immediately trigger the low flow alarm setting. The set points are very easily adjusted via the very visible, rotary dial settings and additional oversight is offered by 2 LED lights ... the red LED will light in a no-flow condition and a green LED indicates flow.



Set point tables

for VT..15 (DN 15)

Switch position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Set point decreasing flow (l/min)*	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,5	5,5	7,5	9,5	11,5	15,5	19,5	24,5	29,5
Set point increasing flow *	0,5 l/min over the set point decreasing flow															

for VT..25 (DN 25)

Switch position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Set point decreasing flow (l/min)*	3	5	6	8	10	12	15	18	20	25	30	35	40	50	70	100
Set point increasing flow (l/min)*	5	7	8	10	12	14	17	20	22	27	33	38	44	55	80	110

for VT..40 (DN 40)

Switch position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Set point decreasing flow (l/min)*	7	10	15	20	25	30	35	40	50	65	80	100	130	160	200	275
Set point increasing flow (l/min)*	10	13	19	24	30	35	40	47	58	75	90	115	150	190	230	310

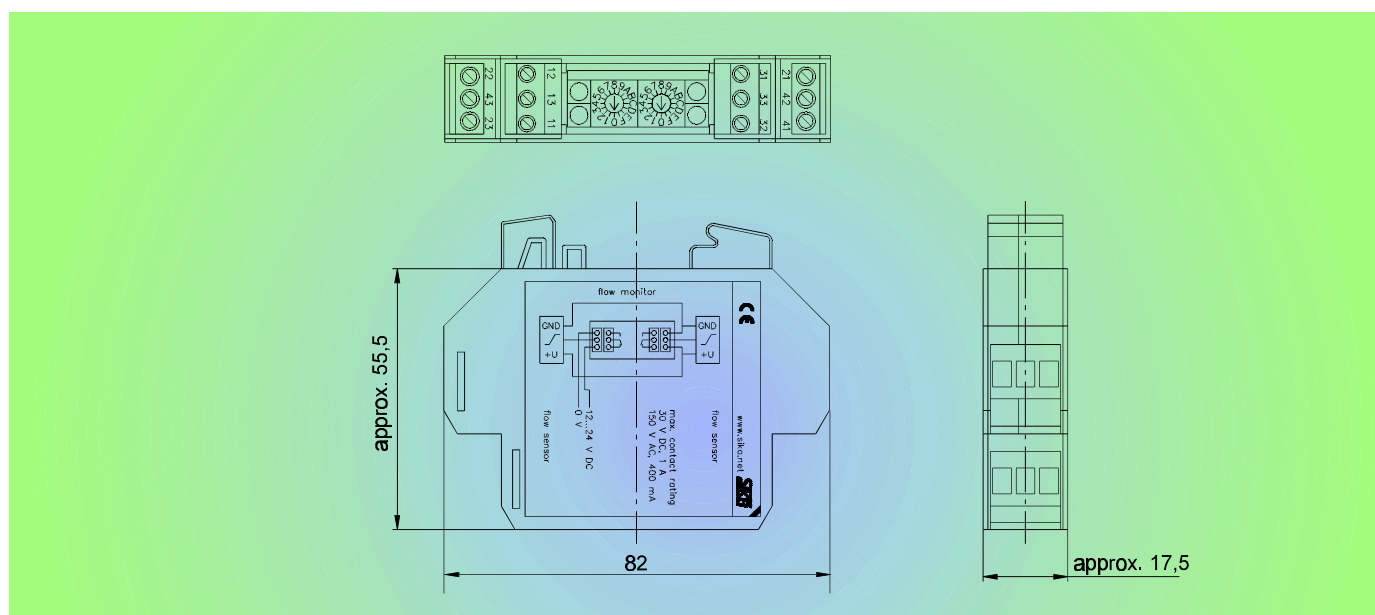
* The specified values refer to operation with water at 20 °C. Monitoring of fluids with higher viscosities is possible with the effect of deviations from the mentioned values.

If you order at least 25 units, individual set point tables can be implemented.

Technical data

Signal input	Frequency signals of up to two identical flow sensors VT...15 VT...25 VT...40		
Display per channel	LED green = ok		LED red = alarm
Set point adjustment	using two 16-position rotary switches, 16 different set points can be selected per channel		
Set point range	VT...15:	0,5...29,5 l/min	Switching hysteresis 0,5 l/min
	VT... 25:	3...100 l/min	2...10 l/min
	VT...40:	7...275 l/min	3...35 l/min
Outputs	two independent, potential free c/o contacts		
Max. contact rating	30 VDC / 1 A		150 VAC / 400 mA
Power supply	12...24 VDC ±10 %		
Casing	Plastic casings for assembly rail setup, approx. 17.5 x approx. 67 x 82 mm (W x D x H)		
Ambient temperature / storage temperature	0...60 °C / -10...80 °C		

Dimensions



Order code

Order number	EU70500	XXX	2296
Connected turbine flow sensors	VTH 15 VTP 15 VTI 15, NPN VTI 15, PNP VTH 25 / VTM 25 VTI 25 VTH 40 / VTM 40 VTI 40	H15 D15 I15 P15 H25 P25 H40 P40	