

HySense QT100 / QT110 Flow Turbine



Features

Calibration viscosity	30 cSt ¹
Output signal	frequency (square wave) / 4 20 mA
Electrical meas. connector	6-pole (ISDS) or 5-pole device plug, M16 x 0.75
Protection type (EN 60529 / IEC 529)	IP 40
Material casing / turbine wheel	Aluminium AlZnMgCu 1.5 / 1.4122 or 1.0718
Material sealing	FKM

The HySense QT range (formerly known as RE3,4 & 6) is an axial turbine flow rate meter. The turbine blade wheel is axially driven by the flow stream, rotating in proportion to the mean flow velocity. A non-contacting inductive pickup generates a pulse signal.

These pulses are then directly converted into a flow measurement by the associate electronic instrumentation. An advantage of our flow measuring turbine are the integrated test points which enable additional measurements of pressure & temperature.



The QT106 is now available with CANopen sensors fitted for integration in to your existing CAN line opening up further measuring possibilities.

- · Output signal analog or frequency
- Developed for mineral oils
- · Allows bi-directional volume flow rate measurement
- Supplied with Pressure and Temperature Test Points
- Optional with Hydrotechnik ISDS
- Compact, high pressure design

Technical data

Mounting orientation	arbitrary			
Supply voltage Ub	12 24 VDC			
Current consumption	12 15 mA (frequency) / 24 31 mA (4 20 mA)			
Over-voltage protection	36 VDC			
Response time	none (frequency) / 250 ms (4 20 mA)			
Medium temperature	max. 120 °C			
Environmental / storage temperature	-20 +85 °C			

Options & Ordering Information

	Output	Measuring range	Viscosity range	Measuring	Allowed working pressure			Error limits	Weight	Order number
	signal	(I/min)	mm²/s (cSt)	connector	bar	MPa	PSI		g	
with ISDS	QT 100 frequency (square wave)	1 10	1 30	IS0228-G1/4	420	42	6,000	± 0.5 %²	630	31V7-01-S-35.030
		2 75	1 100	IS0228-G¾					785	31V7-70-S-35.030
		9 300	1 100	IS0228-G1					1,125	31V7-71-S-35.030
		16 600	1 100	IS0228-G11/4	350	35	5,000		1,380	31V7-72-S-35.030
	QT 110	1 10	1 30	IS0228-G1/4	420	42	6,000	± 0.7 %³	740	31G7-01-S-35.030
		2 75	1 100	IS0228-G¾					895	31G7-70-S-35.030
	analog 4 20 mA	9 300	1 100	IS0228-G1					1,235	31G7-71-S-35.030
		16 600	1 100	IS0228-G11/4	350	35	5,000		1,490	31G7-72-S-35.030
	QT 100 frequency (square wave)	1 10	1 30	IS0228-G1/4	420	42	6,000	± 2.5 %²	630	31V7-01-35.030
without ISDS		2 75	1 100	IS0228-G3/4					785	31V7-70-35.030
		9 300	1 100	IS0228-G1					1,125	31V7-71-35.030
		16 600	1 100	IS0228-G11/4	350	35	5,000	± 2.0 %²	1,380	31V7-72-35.030
	QT 110	1 10	1 30	IS0228-G1/4	420	42	6,000	± 2.7 %³	740	31G7-01-35.030
		2 75	1 100	IS0228-G¾					895	31G7-70-35.030
	analog 4 20 mA	9 300	1 100	IS0228-G1					1,235	31G7-71-35.030
		16 600	1 100	IS0228-G11/4	350	35	5,000	± 2.2 %³	1,490	31G7-72-35.030

² of current reading ³ of final value