

Turbine Flow Meter

CT serial

FLOW: up to 750L/min

PN: 420 bar

OUTPUT: 4-20 mA

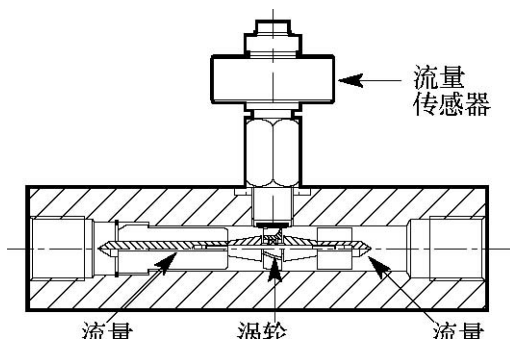
0-5 VDC



INTRODUCTION

The principle of the turbine flow meter is :flow through the pipeline is directly proportional to turbine speed.

The CT turbine flow meter has a built-in MCU. The MCU conditions the signal from the flow meter to provide an accurate linear analogue output. This enables you to connect the flow meter directly into your digital display, PLC or DAQ.



FEATURES

1. FLOW: 1.0-750 L/min
2. PRESSURE: 420 bar
3. ACCURACY: $\pm 1\%$ FS
4. OUTPUT: 4-20 mA
or 0-5 VDC
5. BI-DIRECTIONAL
6. FLYUIDS: Hydraulic Oil, Lubrication Oil, Fuels
7. CALIBRATION: 21 Cst as standard, Special calibration possible

APPLICATION

The CT flow meter is the ideal tool for monitoring the performance of pumps, motors, valves and hydrostatic transmissions.

The CT turbine flow meter with conditioned output provides a complete solution to the flow measurement of hydraulic systems.



SPECIFICATIONS: 0-5V and 4-20mA output, replace **##** with V or mA.

MODEL	RANGE (L/min)	WORKING PRESSURE (bar)	PORTS
CT15- ## - B - B - 6	1 - 15	420	3/8" BSPP
CT60- ## - B - B - 6	3 - 60	420	3/4" BSPP
CT150- ## - B - B - 6	5- 150	420	3/4" BSPP
CT300- ## - B - B - 6	10 - 300	420	1" BSPP
CT400- ## - B - B - 6	10 - 400	420	1" BSPP
CT600- ## - B - B - 6	20 - 600	350	1-1/4" BSPP
CT750- ## - B - B - 6	20-750	350	1-1/4" BSPP

DUTY CYCLE

The CT turbine flow meters have been designed for permanent installation and continuous operation under a normal duty cycle. For heavy duty applications where the flow meter will be used constantly with continuous pressure spikes please contact sales to discuss your application in more depth

CURRENT OUTPUT

- 1: 2 WIRE 4-20 mA
- 2: SUPPLY: 9 - 35 VDC
- 3: MAX.LOOP RESISTANCE:
(VS - 9) x 50 Ω

VOLTAGE OUTPUT

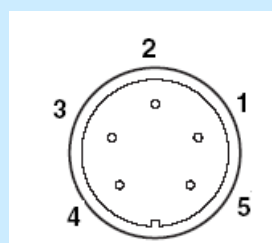
- 1: 0-5 VDC OUTPUT
- 2: SUPPLY: 12 - 35 VDC
- 3: CURRENT CONSUMPTION: 10 mA
- 4: MIN. LOAD: 20k Ω

INSTALLATION

CT turbine flow meters have built-in flow straighteners so the normal recommended length of 10 * Ø of straight tube can be reduced to 8 * Ø where space is limited. Inlet and outlet connections should always have a similar bore size to that of the flow meter to prevent venturi or constriction effects.

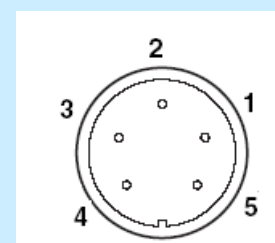
CT flow meters can be used for intermittent or continuous testing of flow in either direction. Standard transducer output connection is 5 pin DIN Male Amphenol type.

0-5V



- 1-V OUT(BLUE)
- 3- + IN (BROWN)
- 4- GND

4-20mA



- 1-Loop -
- 3-Loop +



CT (Dimensions in mm)

Model	Ports	A	B	C	D	E	F	G	H UNC	M	N	P	Q
CT15	1/2" BSP	36.9	136	36.9	-	117	-	-	-	69.5	0	25.0	90.0
CT60	3/4" BSPF	64	191	51	51	130	105	44.5	1/4"	102	9.5	31.8	90.0
CT150	3/4" BSPF	64	191	51	51	130	105	44.5	1/4"	102	9.5	31.8	105
CT300	1" BSPF	64	191	51	51	134	105	44.5	1/4"	102	9.0	35.0	105
CT400	1" BSPF	64	191	51	51	134	105	44.5	1/4"	102	9.0	35.0	108
CT600	1 1/4" BSPF	102	213	76	-	154	-	-	-	86	19	35.0	116
CT750	1 1/4" BSPF	102	213	76	-	154	-	-	-	86	19	35.0	116

