C T METER

- **High Accuracy**
- **Linearity ±0.15%**
- **Repeatability ±0.02%**
- **Wide Flow range**
- **Viscosity compensation**
- **4" to 20" Nominal bore**
- **High Resolution**
- **Dual Pick - ups**
- **Hazardous area use**

The Custody Transfer series Inline Turbine Flow meters are designed to provide high accuracy liquid flow measurement under the exacting conditions encountered in the Oil Industry. Being capable of achieving ±0.15% linearity or better, over a specified flow range- they are specifically intended for use in fiscal or custody transfer applications. CT flow meters are specially designed to minimize viscosity effect in order to preserve the linearity over a flow range.
Two or more pick-up coils can be fitted where pulse security is required.

ASSOCIATED ELECTRONICS

A comprehensive range of electronic signal conditioning and readout instruments is available for use in conjunction with turbine flow meters. These electronic devices include Flow rate monitors, Flow totalisers, various Flow computers, Switching devices and Signal conditioning electronics for local and remote transmission of the output. Readout equipment may be located upto 50 meters from the turbine flow meter. When a pre-amplifier is used, the readout unit may be located upto 3000 meters depending upon the resistance of cable used.

GENERAL SPECIFICATIONS

Accuracy	Linearity : ± 0.15% of reading or better Repeatability : ± 0.02% based on 95% confidence level Rangeability : This is dependent upon the process conditions experienced - specifically viscosity. (For a given application please consult factory)
Maximum Pressure rating	According to Flange specification
Pressure drop (Approx)	5 lb/in^2 (0.30 kg/cm^2) at max. flow range under conditions SG=1, Viscosity=1 cst
Temperature	-20°C to + 150°C (with standard pick-up). (For extended temperature range consult factory)
Minimum Output	25mV at 10% of flow range.
Electrical connections	Conduit box with terminal block connections (conduit box specification is dependent on area classification).
End connections	Flanged ANSI 150, 300 and 600 or British standard and DIN equivalents supplied as standard. Higher ratings like ANSI 900, 1500 & 2500 are available to special order.
Hazardous area use	ATEX certified, Intrinsically Safe & Ex-proof Pick-up coils and head amplifiers.

LIQUID FLOW RANGES

Model No.	Nominal Bore		Normal Operating Range			Max. Operating Repeatable Range		
	Inch	mm	IGPM	USGPM	M^3/Hr	IGPM	USGPM	M^3/Hr
TFM1100 CT	4	100	100-1000	120-1200	27-270	60-1500	72-1800	16-404
TFM1150 CT	6	150	200-2000	240-2400	55-550	120-3000	144-3600	33-825
TFM1200 CT	8	200	400-4000	480-4800	110-1100	240-6000	288-7200	66-1465
TFM1250 CT	10	250	700-7000	830-8300	190-1900	400-9000	500-11000	114-2550
TFM1300 CT	12	300	1000-10000	1200-12000	270-2700	600-15000	700-17500	162-4050
TFM1400 CT	16	400	1700-17000	2000-20000	450-4500	850-22000	1000-26000	240-6000
TFM1500 CT	20	500	2700-27000	3300-33000	750-7500	1500-38000	1800-46000	420-10500

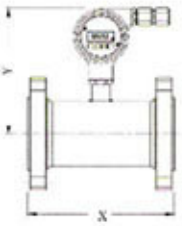
Note : For special ranges, consult factory

MATERIAL

Body (All sizes)	Stainless Steel (or Carbon Steel to order)
Flange	Carbon Steel (or Stainless Steel to order)
Rotor	Stainless Steel ANSI 316 or BS 3146 ANC 4BFC
Bearing support assemblies	Stainless Steel ANSI 316
Bearing	Tungsten Carbide Pinions and Sleeves

DIMENSIONS

NB (Inch)	Y		X		Approx Wt. in Kg (150lb flange)
	Inch	mm	Inch	mm	
6	11	279	14	368	50
8	12	311	18	457	97
10	13	336	18	457	113
12	14	362	18	457	145
16	16	419	24	610	266
20	18	470	24	610	350



CALIBRATION FACILITY

Rockwin Hydraulic Calibration Laboratory is based on 500 mm and 100 mm positive displacement Prover loops designed and operated as per API MOMS. The maximum flow capacity is 3200 cubic meter per hour. The provers have a repeatability better than ± 0.003%. The provers are independently certified and are traceable to National standards. The Gas calibration facility is based on Transfer standards and can currently handle flow upto 2500 cubic meter per hour.

Development dictates that from time to time the data shown above is subject to change without notice. Please obtain quotation.

REGISTRED OFFICE
D-1/34, Vasant Vihar,
New Delhi - 110057
Tel : 26142599, Fax: 011-26146942
E-mail : rockwin@vsnl.com

WORKS
B-24, Site IV, Sahibabad Indl. Area,
Ghaziabad - 210010, U.P.
Tel : 2895400/ 401, Fax: 0120 2895450
E-mail : rajiv@rockwin.com

DELHI
103, Harsh Bhawan,64-65, Nehru Place,
New Delhi - 110019
Tel : 26211714 , Fax : 011-26424872
E-mail : rockwinindia@mantraonline.com

MUMBAI
A/3, Jay Chambers, Nanda Patkar Road,
Vile Parle (E), Mumbai - 400057
Tel :26146274, 26175008, Fax:022-26118131
E-mail : mumbai@rockwin.com

KOLKATA
Oriental House, Suite GC
6C, Elgin Road, Kolkata 700020.
Tel : 22809774 /9775, Fax : 033-22809774
E-mail : rockwinkolkata@vsnl.net

CHENNAI
85/19, Sri Rangam Avenue, Pantheon Road,
Egmore, Chennai - 600008
Tel : 28529176, Fax: 044-28529569
E-mail : rockwinchennai@vsnl.net

Rockwin Flowmeter India Pvt Ltd

Visit us at : www.rockwin.com

We Measure Up

RTCT 04043