



ENHANCED RELIABILITY

Metal-to-metal seal for a better protection of the electronic board.
Easy-to-use MPLT operated by anyone in less than 10 mins.
Battery laterally connected avoids disconnection in operation.

METROLOG BREAKTHROUGH

The only triple sensor memory tool.
Electronics protected and insulated from vibrations.
External communication port reduces maintenance cost and time.
Smart battery system displays the remaining power of your cells.

APPLICATIONS

For well diagnosis.
Easy-to-make production/injection profile in monophasic wells.

SPECIFICATIONS

FLOW		<i>Titanium Spinner</i>	
Bi-directional	Yes		
Threshold	± 3m/min in Water		
Resolution	0.005% of measure		
Spinner pitch	2"	5"	
Threshold	12ft/min (4m/mn)	30ft/mn (10m/mn)	
Max. velocity	1000ft/min (300m/mn)	2500ft/mn (760m/mn)	
PRESSURE		<i>PiezoResistive Sensor</i>	
Range	0-3000 up to 0-15000 psi (0-200 to 0-1000 bar)		
Accuracy	± 0.05% FS		
Resolution	< 0.05 psi (< 0.003 bar)		
TEMPERATURE		<i>PT100</i>	
Range	0 to 300 °F (-20 to 150 °C)		
Accuracy	± 0.3 °F (± 0.15 °C)		
Resolution	< 0.01 °F (< 0.005 °C)		
Response time	<2sec.		
MECHANICS			
Material	Inconel X-750,17-4 PH aged to fit sour service (H ₂ S, CO ₂ , acid) and Stainless Steel		
OD	1" 11/16	2" 1/8	2" 7/8
Length	40" (1 m)		
Weight	7 lbs (3.5 kg)		
Threads	15/16" 10 UNC (pin up x box down)		
Bottom nose	¼" NPT (female)		
MEMORY			
Capacity	2 800 000 data points of pressure and/or temperature		
COMPUTER AND SOFTWARE			
Programming Modes	Conventional, Advanced		
Parameters	2s-18h Scanning Rate, Time delay, Pressure start (Trigger, Threshold)		
Windows	Compatible with Windows 2000/XP/Vista/7		
Connector	RS232/USB		
BATTERY TYPE			
LP15E	For up to 300 days of operation		

FLOW, PRESSURE AND TEMPERATURE MEMORY GAUGES

Multilog4 flow measurement limitations with a 2" pitch spinner :

Tbg/csg size (nominal)	Aver. ID (")	Minimum flowrate ‡		Maximum flowrate ‡		Worst case resolution #	
		(M3/day)	(Bbl/day)	(M3/day)	(Bbl/day)	(M3/day)	(Bbl/day)
2 3/8	1.995	12	74	885	5567	0.04	0.3
2 7/8	2.441	18	111	1325	8335	0.06	0.4
3 1/2	2.992	26	167	1991	12522	0.10	0.6
4 1/2	3.833	43	273	3267	20551	0.16	1.0
5 1/2	4.892	71	445	5322	33476	0.26	1.6
7	6.276	117	733	8760	55097	0.43	2.7

Multilog4 flow measurement limitations with a 5" pitch spinner.

5" pitch spinner is normally used in high flow rate gas wells, flowrates are thus given in Cubic Feet (CF) :

Tbg/csg size (nominal)	Aver. ID (")	Minimum flowrate ‡		Maximum flowrate ‡		Worst case resolution #	
		(M3/day)	(CF/day)	(M3/day)	(CF/day)	(M3/day)	(CF/day)
2 3/8	1.995	22	781	2213	78146	0.11	3.8
2 7/8	2.441	33	1170	3313	116992	0.16	5.7
3 1/2	2.992	50	1758	4977	175770	0.24	8.6
4 1/2	3.833	82	2885	8169	288469	0.40	14.1
5 1/2	4.892	133	4699	13306	469888	0.65	22.9
7	6.276	219	7734	21900	773370	1.07	37.8

‡ All flowrates are given at downhole conditions.

Worst case resolution is given at maximum flowrate. Resolution is in fact always better at lower flowrate

Metrolog

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Ahead of the CurveSM