



ENHANCED RANGE OF TOOLS

Pressure, temperature, fast temperature and flow downhole tools
 Well head pressure & temperature surface monitoring
 Slick line depth, speed & weight recorder
 Well test optimization system with real time reading through slickline shuttle

METROLOG UNIQUE FEATURES

Complete operation of a memory gauge without opening it : for ease of use, enhanced reliability and safety (classic mode also available)
 Smart batteries record their activity and can be tested for their remaining life
 Electronic board mounted on shock absorbers with laterally connected battery to prevent disconnections during operation.

APPLICATIONS

Well testing, reservoir evaluation with static & flowing gradient, build-up, interference test
 Real time well test monitoring (through slickline shuttle)
 Very long duration data recording/ HPHT conditions
 Surface monitoring and artificial lift control

SPECIFICATIONS

1.25" PRESSURE AND TEMPERATURE GAUGES

PRM5	Piezo sensor, 150°C max (300°F), 8.4 million data points
PRM5 HPHT	Piezo sensor, 177°C max (350°F), 8.4 million data points
AMetrolog5	Low cost gauge, 150°C max (300°F), 8.4 million data points
CGM5	Quartz sensor, 150°C max (300°F), 4.2 million data points
CGM5-HT	Quartz sensor, 177°C max (350°F), 4.2 million data points
CGM5-XHT	Quartz sensor, 200°C max (392°F), 4.2 million data points
CGM5-UHT	Quartz sensor, 210°C max (410°F), 4.2 million data points



0.75" PRESSURE AND TEMPERATURE GAUGES

AMetrolog 3/4	Piezo sensor, 150°C max (300°F), 4.2million data points
iGauge5	Piezo sensor, 150°C max (300°F), 4.2million data points
iGauge5-HT	Piezo sensor, 177°C max (350°F), 4.2million data points
iQuartz5	Quartz sensor, 150°C max (300°F), 4.2million data points
iQuartz5-HT	Quartz sensor, 177°C max (350°F), 4.2million data points
iQuartz5-XHT	Quartz sensor, 200°C max (392°F), 2.1million data points



PRODUCTION LOGGING MEMORY TOOLS

Multilog5/HPHT	Flow Pressure and Fast Response Temperature 150°C (300°F)
Depthlog4	Depth, Logging speed and Tension recorder
PTRM5/TRM5	Fast Response Temperature and Piezo sensor, 150°C (300°F)

SIDE POCKET MANDREL MEMORY GAUGES

iGauge GL	For 1" or 1.5" side pocket mandrels, 150°C max (300°F)
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WELL HEAD RECORDERS

SAS Ex	Surface Acquisition System for hazardous areas: well-head temperature and compensated pressure.
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GAUGE CARRIERS AND ACCESSORIES

FBI/FBE/mixed-carriers	Carriers for DST, coil tubing, gravel pack and well treatments
iScope/iScope Shuttle	Smart carrier and shuttle for well test optimization
Slickline carriers	For up to 2 gauges. OD 1"11/16, 1.25", 1"
Accessories	Batteries, centralizers, rope sockets, shock absorbers, etc.



METROLOG DOWNHOLE PRODUCTS SELECTION

PRESSURE AND TEMPERATURE MEMORY GAUGES & SURFACE GAUGES

Specifications*	AMetrolog5 3/4ft/Gauge5/-HT	PRM5/-HT/AMetrolog5	iQuartz5/HT/XHT	CGM5/-HT/-XHT/-UHT	SASEx
Pressure	<i>piezoresistive sensor</i> any**, 0-15000 max	<i>piezoresistive sensor</i> any**, 0-15000 max	<i>quartz sensor</i> any**, 0-15000 max	<i>quartz sensor</i> any**, 0-30000	<i>piezoresistive sensor</i> 0-10000 max
range (psi)	< 0.05	< 0.05	< 0.02	< 0.02	< 0.05
accuracy (%FS)	< 0.05	< 0.05	< 0.01	< 0.01	< 0.05
resolution (psi)					
Temperature	<i>PT100</i> 300 or 350	<i>PT100</i> 300 or 350	<i>Quartz</i> 300 or 350 or 392	<i>Quartz</i> 300 or 350 or 392 or 410	<i>PT100</i> 210
max. range (°F)	< 0.6	< 0.6	< 0.2	< 0.2	< 0.6
accuracy (°F)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
resolution (°F)					
Memory					
capacity (points)	4 200 000	8 400 000	4 200 000 (2 100 000 for -XHT)	4 200 000	1 400 000
redundant memory	Yes	Yes	Yes	Yes	No
Battery type***	Z	P	Z	P	LS 33600
Program modes					
conventional	Yes	Yes	Yes	Yes	Yes
advanced	Yes	Yes	Yes	Yes	Yes
scanning rate	1s to 18h	1s to 18h	1/100s to 18h	1/100 up to 18h	1s to 18h
Mechanical data					
O.D. (inch)	0.75	1.25	0.75	1.25	-
total length (inch)	9" to 15"	16" to 19"	18" to 21"	21" to 24"	210x120x240mm
threads (PU-BD)	5/8" 11 UNC (if needed)	15/16" 10 UNC	5/8" 11 UNC (if needed)	15/16" 10 UNC	-
bottom nose thread	1/4" NPT (if needed)	1/4" NPT	1/4" NPT (if needed)	1/4" NPT	1/2" or 3/4" NPT
sour service	Yes	Yes	Yes	Yes	Yes
Long exposure to gas	metal-to-metal seal	metal-to-metal seal	metal-to-metal seal	metal-to-metal seal	EEx ia IIB T4

* Enhanced specifications available on demand

FLOW, PRESSURE, DEPTH AND FAST RESPONSE TEMPERATURE MEMORY GAUGES

Specifications*	PTRM5/-HT	Deptholog4	Multilog5/-HPHT
Pressure	<i>piezoresistive sensor</i> 0-10000	<i>piezoresistive sensor</i> tension recorder : 0-1500	<i>piezoresistive sensor</i> 0-10000 or 0-20 000
range (psi)	< 0.05	< 0.05	< 0.05
accuracy (%FS)	< 0.05	< 0.05	< 0.05
resolution (psi)			
Temperature	<i>external PT100</i> 300 or 350	-	<i>external PT100</i> 300 or 350
max. range (°F)	< 0.6	-	< 0.6
accuracy (°F)	< 0.01	-	< 0.01
resolution (°F)	< 2	-	< 2
response time (s)			
Other sensors	-	depth optical recorder	flow - spinner
bi-directional	-	Yes	Yes
resolution (% of measure)	-	± 0.3ft (0.1m)	0.005
spinner pitch (")	-	-	2 5
threshold (m/mn)	-	-	4 10
max. velocity (m/mn)	-	-	305 762
Memory			
capacity (points)	8 400 000	up to 200.000 ft (41.000 m)	8 400 000
min. scanning rate (s)	1	-	2
Battery type**	P	80 hours on rechargeable Li-pack	LP
Program modes			
conventional	Yes	Yes	Yes
advanced	Yes	Yes	Yes
Mechanical data			
top thread	15/16" 10 UNC	-	15/16" 10 UNC
bottom thread	15/16"	-	-
sour service	Yes	-	Yes
O.D. (inch)	1.25"	-	1.6875" 2.125" 2.875"
total length (inch)	30"	270x160x60mm	32" 32" 33"

* Enhanced specifications available on demand

**Piezoresistive sensors can be of any range but 0-10000 and 0-15000 psi sensors are commonly available. Quartz sensors can be 0-6kpsi or 10kpsi, 15k, 20k, 25k, 30kpsi

***Smart batteries code refers to its voltage and geometry: Z is for 0.75" OD gauges, P is for 1.25" OD PRM and CGM gauges.

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