INTEGRAQMR™
QUARTZ MEMORY RECORDER

KNOW YOUR RESERVOIR.

THE INTEGRA QMR QUARTZ MEMORY RECORDER bottomhole pressure and temperature gauge uses state-of-the-art crystal controlled oscillator technology to provide the most accurate absolute pressure data on the market.

The enhanced software package and the flexibility and ease of use, make the **INTEGRA QMR** a total complete package to gather and report pressure and temperature well data.

Re-calibration is eliminated or drastically reduced because the sensing portion of the quartz transducer is a resonating quartz crystal placed in an electronic circuit to control the oscillator. The quartz frequency is extremely stable with time.

KEY BENEFITS

ELIMINATES PERIODIC RE-CALIBRATION AND ASSOCIATED COSTS UNDER NORMAL USE

IMPROVES RELIABILITY

LOWERS OPERATING AND MAINTENANCE COSTS

PROVIDES GREATER MEMORY CAPACITY

EXTENDS DOWNHOLE SURVEY

PROVIDES LOW-COST QMS-2200 UPGRADE

LOWERS PARTS AND LABOR COSTS

WORLD-WIDE SERVICE CENTERS EQUIPPED WITH INTEGRA QMR INVENTORY (BOARDS, BATTERIES AND SPARE PARTS)

SPECIFICATIONS

TRANSDUCER TYPE	QUARTZ
PRESSURE RANGES	5,000 psi (34 MPa)
	10.000 psi (69 MPa)
	16,000 psi (110 MPa)
	20,000 psi (137 MPa)
TEMPERATURE RANGES	302 °F (150 °C)
	329 °F (165 °C)
	350 °F (177 °C)
PRESSURE DRIFT	Less than 2 psi/year
PRESSURE ACCURACY	±0.02% full scale
PRESSURE RESOLUTION	0.01 psi
TEMPERATURE ACCURACY	±0.36 °F / ±0.2 °C
TEMPERATURE RESOLUTION	±0.002 °F / ±0.001 °C
MEMORY CAPACITY	1,310,000 data sets (press, temperature, time)
SAMPLING RATE	1 Second
PROGRAMMING INTERVALS	20 segments
SOFTWARE	Microsoft® Windows® 98, XP & Vista
COMPUTER INTERFACE	RS232 serial port, USB
TOOL DIAMETER	1.25" (3.17 cm)
	1.00 (2.54 cm)
TOOL LENGTH	21.9" (56.63 cm)
HOUSING MATERIAL	718 Inconel
SERVICE	H_2S Service & High CO2

GRC offers the best total downhole solutions for the lowest cost. For more information about the **INTEGRA QMR** Quartz Memory Recorder and the many other quality downhole data acquisition solutions GRC offers, contact us at (1) 918-834-9600 or visit us online at www.grcamerada.com.

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