

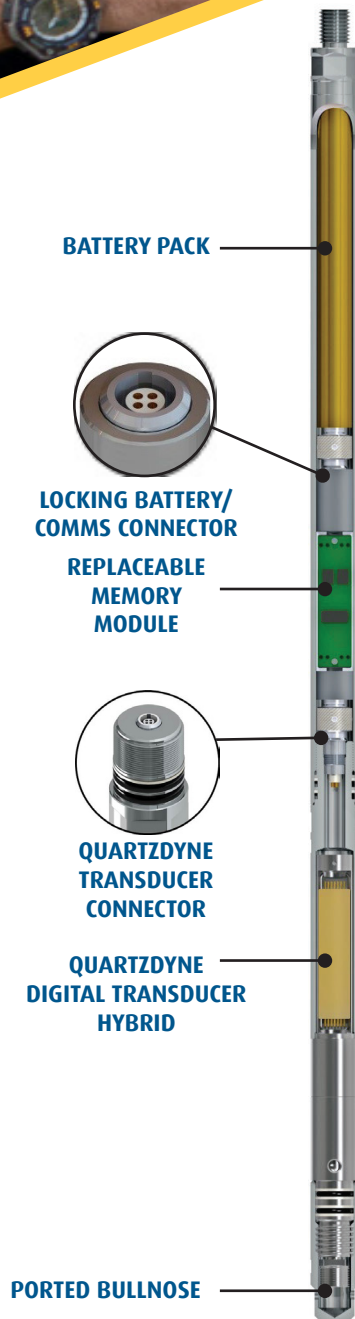


Reservoir Group's QM200 Slim quartz memory gauge is one of the most rugged and compact gauges available on the market, designed for high pressure and temperature monitoring.

The QM200 Slim is an extremely small diameter quartz memory gauge engineered to be deployed in wireline shock housings/carriers and tubing conveyed carriers. It has a 0.75" OD and is capable of high pressure and high temperature monitoring up to 200°C.

QM200 Slim provides exceptional data quality up to an impressive 25 ksi using Quartzdyne's state-of-the-art digital hybrid technology. The small diameter allows for a faster response compared to larger quartz gauges. A field replaceable 200°C memory module allows rapid change-out of the gauge's electronics providing virtually uninterrupted use of the gauge when required for multiple runs. A large 1 million dataset memory module is supplied as standard, but a 2 million dataset memory module (max 185°C rated) is available as an option. Materials such as Hastelloy and Inconel are used in the manufacture of the QM200 Slim to help combat corrosion effects associated with use in HPHT hostile wells.

Reservoir Group provides a range of spring mounted shock housings/carriers and tubing conveyed carriers for deploying the QM200 Slim gauge as standard, but can design a carrier suited to any application.



Features	Benefits
High pressures and temperatures up to 25ksi and 200°C	Superior performance in challenging environments such as HPHT
Field replacement memory modules	Provides the best reliability in any environment
Sequential memory for maximum capacity or duplicated memory (saves data into two memory banks)	Fully flexible set-up to suite the well or test conditions
Fits into standard downhole gauge carriers and shock housings	Suitable for wireline and tubing conveyed applications

### QM200 Slim for Demanding Applications

- Hostile well, H<sub>2</sub>S and CO<sub>2</sub> corrosive environments
- Gradient survey
- Interface test

- Pressure build-up or draw-down test
- Production optimisation
- Slickline operations

- Reservoir evaluation, well testing and DST
- Static, flowing and build-up surveys

# Technical Specifications

Pressure	
Maximum external pressure	Must not exceed sensor range or 25 ksi max
Sensor range	4 options, from 10 ksi to 25 ksi
Sensor type	Quartz resonator
Accuracy	<±0.015% FSO
Drift	±0.02% FSO per year
Resolution (resolutions figures stated in brackets are for 0.1 second sampling interval only)	10 ksi <0.006 psi (<0.06 psi) 16 ksi <0.008 psi (<0.08 psi) 20 ksi <0.008 psi (<0.08 psi) 25 ksi <0.010 psi (<0.10 psi)
Temperature	
Maximum temperature*	Must not exceed sensor range or 200°C Max
Sensor range	3 options, 150°C, 177°C and 200°C
Accuracy	±0.15°C
Repeatability	<0.01°C
Resolution	<0.05°C (scales directly with sample rate)
Power	
Battery type	2AA or 4AA lithium
Operating voltage	3.2 to 3.9 V
Battery Life**	9.9 or 19 days***
Memory	
Sampling interval	0.1 second and 1 second to 1 hour
Capacity****	1,000,000 datasets (sequential mode) 500,000 datasets (redundant mode)
Record contents	Time, pressure, temperature
Other	
Materials	Inconel 718 and Hastelloy C-276
Service	Standard and H <sub>2</sub> S

\*Optional QM200EX-2M memory module is rated up to 185°C only

\*\*Battery life varies with temperature and sampling interval

\*\*\*Specified at 125°C and 5 second sampling interval

\*\*\*\*Double this capacity for optional QM200EX-2M memory module

## QM200 Slim, 0.75" OD

