Rheometers

Thermo Scientific HAAKE MARS iQ Rheometer Series

More iQ for your QC and R&D

A smarter rheometer system for QC and R&D

The Thermo Scientific™ HAAKE™ MARS™ iQ Rheometer Series enable fast, consistent characterization of a wide range of samples, regardless of user.

The software and a user-friendly touch screen offer the possibility to support QC and R&D employees with standard operating procedures. In combination with “Assist” functionalities failure-free measurements are ensured.

Choose between two different versions, equipped with either ball-bearing or air-bearing. Combined with a comprehensive portfolio of accessories, it offers a wide measuring range for a variety of samples and advanced testing capabilities such as texture analysis, tribology, powder rheology, pressure-dependent tests and combined methods.

Discover the benefits

Intuitive.

A rheometer that makes QC and R&D even more convenient

- State-of-the-art user interface for SOP execution
- “Assist” functionalities to ensure safe and correct measurements

Intelligent.

A rheometer design that masters daily measurement challenges

- Unique lift and frame concept to meet highest technical requirements with free access to sample area
- Next generation of EC motor ideal for different demands

Individualized.

A rheometer with extraordinary flexibility for tomorrow’s testing demands

- Future-proof with extensive and growing accessory portfolio
- Ready for measurements beyond rheology using normal force capabilities

Operation with a mouse-click or operation with a finger touch

Instrument touchscreen user interface for more convenience

- Large 7’’ color touchscreen (multilingual)
- Launch of any Thermo Scientific™ HAAKE™ RheoWin™ Software method directly from the instrument
- Display of real-time numerical measurement data and data analysis results
- Standby mode for energy savings and such much more…

Technical data	Units	HAAKE MARS iQ	HAAKE MARS iQ Air
Bearing type		Ball bearing	Air bearing
Measuring modes			
Rotation (CR[a], CS[b])		✓	✓
Oscillation (CD[c], CS)		✓	✓
Torque range			
Min. torque rotation	µNm	200	0.3
Max. torque rotation	mNm	125	150
Min. torque oscillation	µNm	200	0.1
Max. torque oscillation	mNm	125	150
Torque resolution	µNm	0.2	0.007
Velocity ranges			
Min. angular velocity	rad/s	0.001	0.0001
Max. angular velocity	rad/s	209.4	209.4
Min. rotation speed	min^{-1}	0.01	0.001
Max. rotation speed	min^{-1}	2000	2000
Angular resolution	µrad	0.63	0.63
Frequency range			
Min. frequency	Hz	0.01	0.0001
Max. frequency	Hz	20	100
Normal force			
Min. normal force	N	0.01[d]	0.01
Max. normal force	N	50[d]	50
Normal force resolution	N	0.001[d]	0.001
Lift performance			
Max. lift travel	mm	230	230
Gap accuracy	µm	1	1
Gap resolution	µm	0.05	0.05
Min. lift speed	µm/s	0.05	0.05
Max. lift speed	mm/s	20	20
Temperature modules with automatic recognition		**-150 °C to 450 °C[e]**	**-150 °C to 450 °C[e]**
Features and functionalities			
Color touch screen		✓	✓
Connect Assist		✓	✓
Protect Assist		✓[d]	✓[d]
Color Assist		✓	✓
View Assist		✓[d]	✓[d]
Interfaces			
TCP/IP-Ethernet		For communication with PC	For communication with PC
Dimensions			
W × D × H	mm	480 × 390 × 670	480 × 390 × 670
Weight	kg	62	62

[a] Controlled rate, [b] Controlled stress, [c] Controlled deformation, [d] Option, [e] Depending on temperature modules and other factors, e.g., cooling option

Contact us today to discuss your needs. With decades of application know-how in our worldwide demonstration labs, we can assist you in realizing your specific application needs and goals. Talk to our experts today and learn what options are available.

Learn more at **thermofisher.com/marsiq**

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