

ProtectAssist

This document describes the optional ProtectAssist functionality for the Thermo Scientific™ HAAKE™ MARS™ iQ (Air) Rheometer and instructions on how to mount the ProtectAssist door to the HAAKE MARS iQ instrument frame.

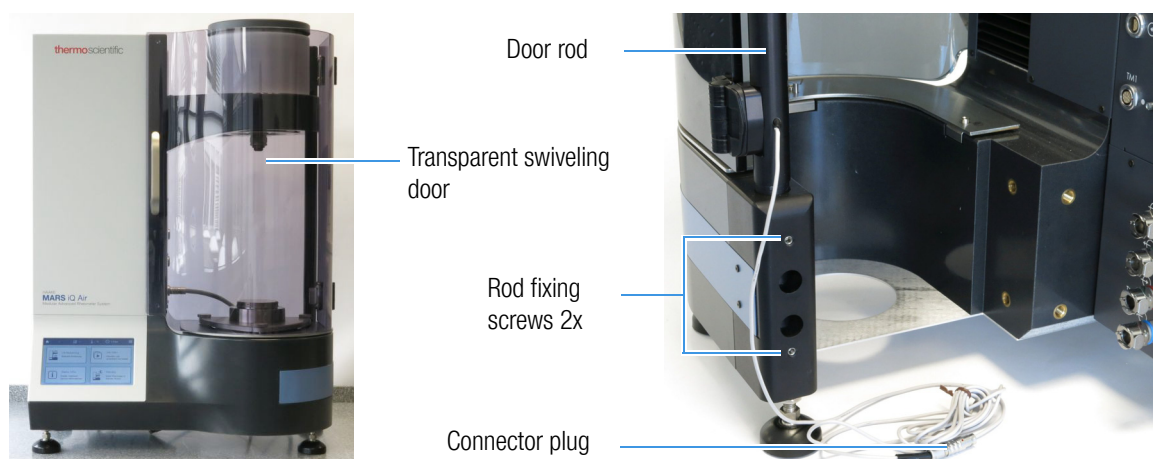
The optional ProtectAssist door¹ is mounted to the HAAKE MARS iQ instrument frame and, when closed, physically prohibits the operator to access the (sample) area below the instrument head and above the TM-xx-x temperature module. This can be used to protect the operator from touching the rotating and/or vertically moving rotor during a measurement, from touching very hot/cold parts of the instrument, from unwanted contact with sample material, from controlling an external device, etc. There are several options available in the Thermo Scientific™ HAAKE™ RheoWin™ Software for setting up the level of protection.

Introduction

The optional ProtectAssist functionality consists of:

- A transparent swiveling door mounted to the HAAKE MARS iQ instrument frame,
- status icons in the HAAKE MARS iQ touch screen status bar and in the HAAKE RheoWin JobManager device toolbar which shows the status of the door (open or closed),
- several HAAKE RheoWin options for protecting the operator from rotating and/or hot/cold parts.

Figure 1. HAAKE MARS iQ with mounted ProtectAssist door (front view left, rear view right)



Installation

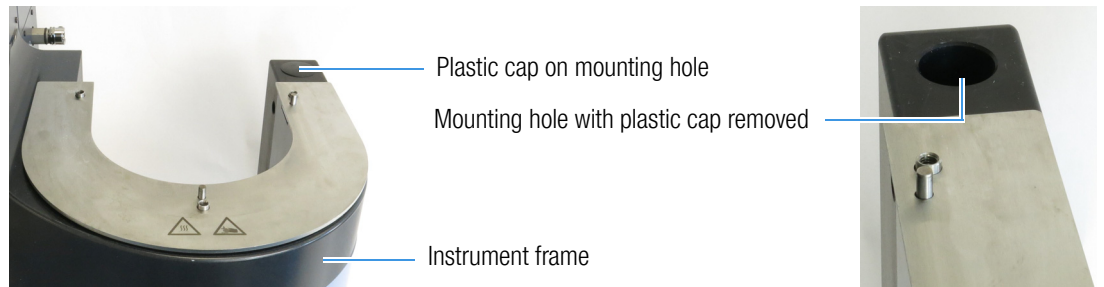
The following procedure describes how to install the ProtectAssist door on a HAAKE MARS iQ.

❖ To mount the ProtectAssist door to the instrument frame

1. Remove the plastic cap from the mounting hole on the instrument frame (see [Figure 2](#)).
2. Place the ProtectAssist door rod in the mounting hole.

¹ Part number 222-2400

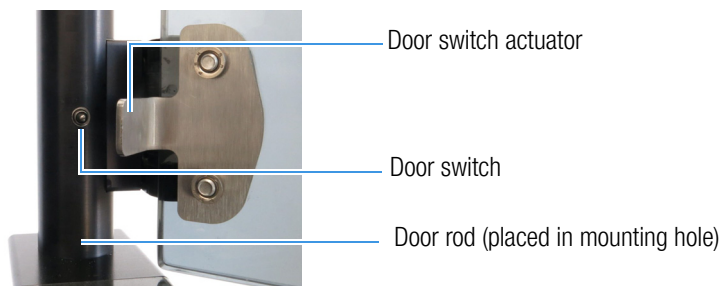
Figure 2. Plastic cap on mounting hole in instrument frame



3. Fix the door rod in the mounting hole with the two supplied screws (see [Figure 1](#)) using a 4 mm hexagonal tool.

Make sure that the door switch actuator touches the door switch when the door is closed and that the door can swivel without touching the U-shaped cover plate on the frame.

Figure 3. Lower door hinge with switch and switch actuator

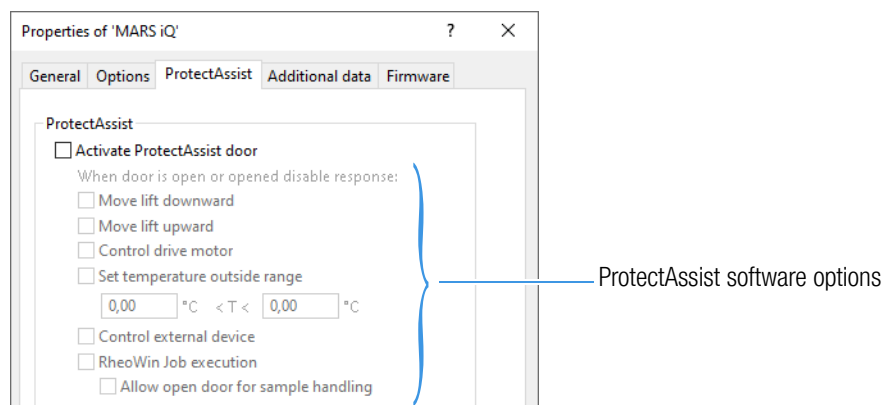


4. Mount the door switch connector plug in the 3-pin connector socket  on the left side of the HAAKE MARS iQ E-box rucksack.

❖ To activate the ProtectAssist door

1. In the HAAKE RheoWin DeviceManager open the ProtectAssist page in the **Properties of 'MARS iQ'** dialog, see paragraph [“MARS iQ \(Air\) Device Editor”](#) in [Chapter 4, “HAAKE RheoWin Software”](#) in the HAAKE MARS iQ Reference Manual.
2. Activate the **Activate ProtectAssist door** option, see [Figure 4](#).

Figure 4. MARS iQ device editor with ProtectAssist page



This will activate the door icons in the status bar of the instruments touchscreen and in the RheoWin JobManager device toolbar.

For a description of the software options listed below the **Activate ProtectAssist door** option see the HAAKE MARS iQ Reference Manual.