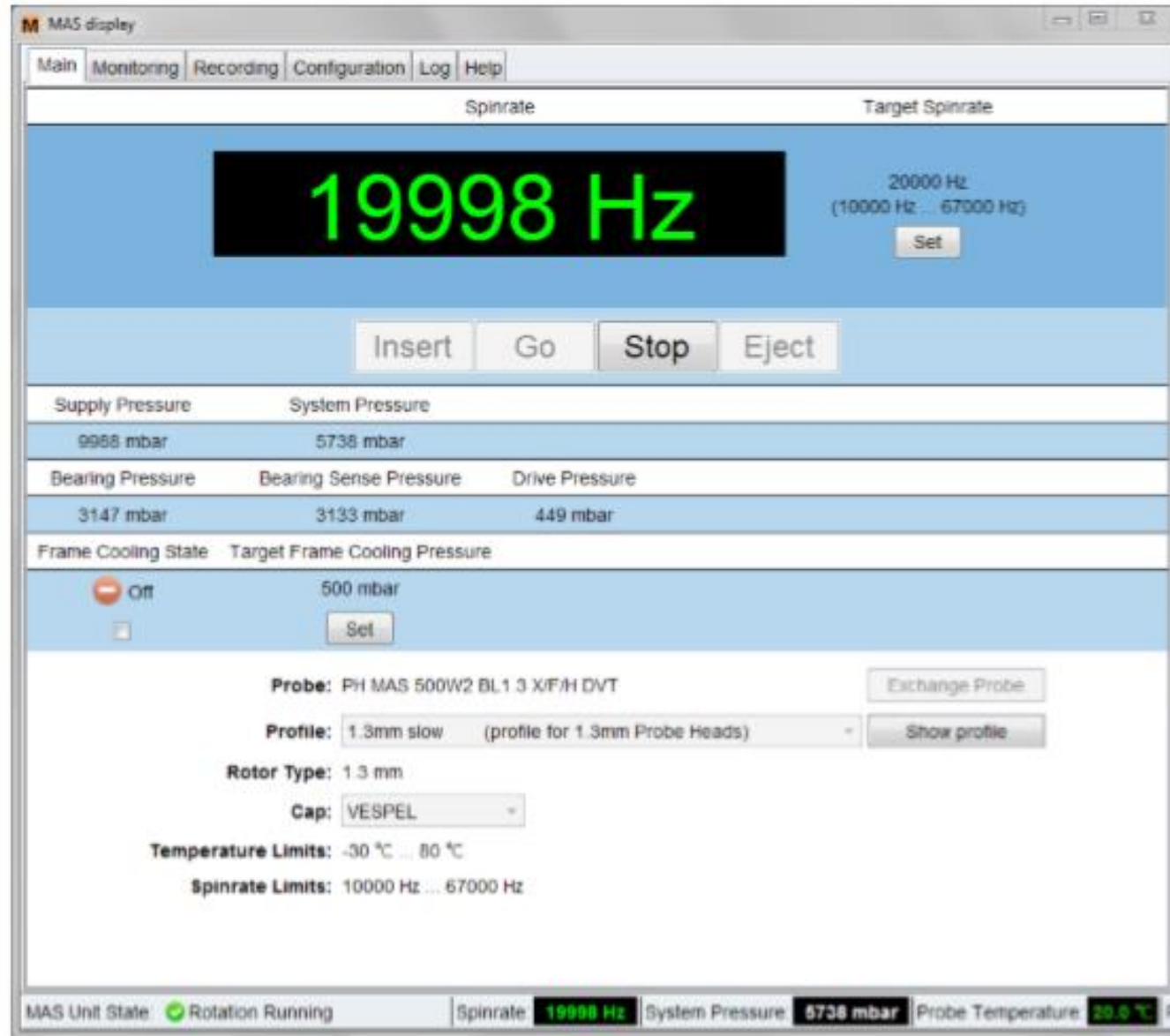


Bruker MAS III unit; new spinning profiles



Why do we need to disconnect the fuse?



Figure 5.6: Rotor Quick Stop Button on the Back Panel of the MAS III



Figure 5.7: Mains Switch



Rotation Profiles

Filter

Hide profiles ☐ from this unit and/or ☐ provided by Bruker

Apply

List

New Delete Export Import Clone

Name	Probe	Source	Actions
<input type="checkbox"/> LLC_3.2mm	H13900 / 0001	This MAS/3	Edit View
<input type="checkbox"/> MAS7mm	H13895 / 0001	This MAS/3	Edit View
<input type="checkbox"/> Probe13_new	H13863 / 0003	This MAS/3	Edit View
<input type="checkbox"/> Generic 0.7mm	.7 mm	Bruker	View
<input type="checkbox"/> Generic 1.3mm	1.3 mm	Bruker	View
<input type="checkbox"/> Generic 1.9mm	1.9 mm	Bruker	View
<input type="checkbox"/> Generic DNP 1.9mm	1.9 mm	Bruker	View
<input type="checkbox"/> Generic 2.5mm	2.5 mm	Bruker	View
<input type="checkbox"/> Generic 3.2mm	3.2 mm	Bruker	View

Ready

Spin Rate (Hz)

User Name:
Service

Log out

Profile Identification

Name	LLC_3.2mm
Description	3.2 mm HXY LLC
Last Modified On	18 12 2018 10:38 (DDMMYYYY)

Probe

Part No	H13900
Serial No	0001

Spin Up

Delete Spin Up Step Below

Insert Spin Up Step Here

From 0 to (Hz)	1500
Ramp up only	<input checked="" type="checkbox"/>
Timeout (s)	25
Bearing	
Slope (μ bar/Hz)	0
Offset (mbar)	600
Maximum (mbar)	600
Drive	
Increment By (mbar)	2
Increment Step Duration (ms)	400
Decrement By (mbar)	2
Decrement Step Duration (ms)	400
Maximum (mbar)	250

Delete Spin Up Step Below

Insert Spin Up Step Here

From 1500 to (Hz)	5000
Ramp up only	<input type="checkbox"/>
Timeout (s)	20

Increment Step Duration (ms)	250
Decrement By (mbar)	10
Decrement Step Duration (ms)	250
Maximum (mbar)	2500

Add Spin Up Step

Spin Down

No step defined.

The unit will use its default spin down procedure:

1. Drive is decreased to zero at 0.5 bars/s

At the same time bearing is decreased to 0.5 bar at 0.11 bars/s

2. Bearing is decreased to zero at 0.10 bars/s

Add Spin Down Step

Copy from Spin Up

Regulation

Delete Regulation Step Below

Insert Regulation Step Here

From 0 to (Hz)	6000
P	900
I	5
D	0
T	200
Timeout (s)	0

Delete Regulation Step Below

Insert Regulation Step Here

From 6000 to (Hz)	24000
P	1080
I	28
D	2
T	200
Timeout (s)	0

Add Regulation Step

three weighted terms (proportional, integral and derivative), the heater power is adjusted (control signal).

