



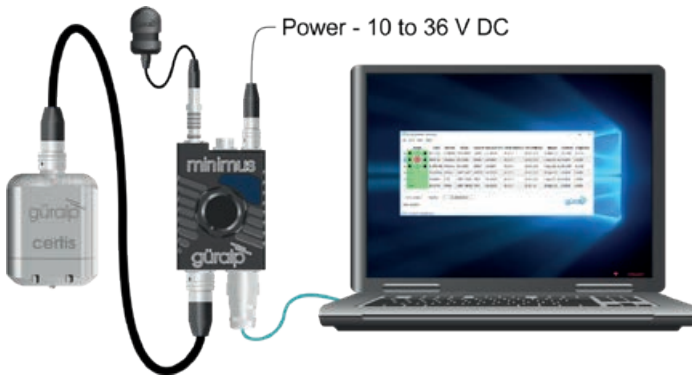
CERTIS

MEDIUM MOTION SEISMOMETER

QUICK START GUIDE

CERTIS

Initial Hardware Setup



Connection Setup for Minimus Family

- 1 Open the Discovery application and locate the digitiser in the main list.

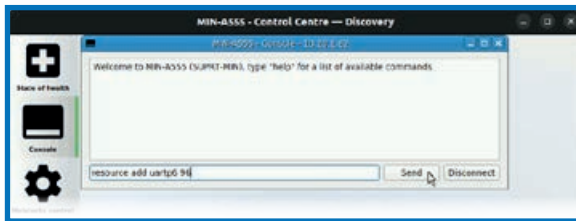
Status	Label	System	Name	Serial #	Firmware Ver	WAN Address
	CERTIS_TEST#06	Minimus Lite	MINL-6A65	6A65	2.1-14431	0.0.0.0
	MIN-Certis	Minimus	MIN-C768			
	SUPRT-MINL-CERTIS	Minimus Lite	MINL-6518	6		
	TestRoom1_CertisTest#02	Minimus	MIN-2757	2		
	TestRoom1_CertisTest#03	Minimus	MIN-CC57	C		
	TestRoom2_CertisTest#02	Minimus Lite	MINL-66FA	6		

- 2 Right-click on the digitiser in the main list and select **Console** from the Context menu.

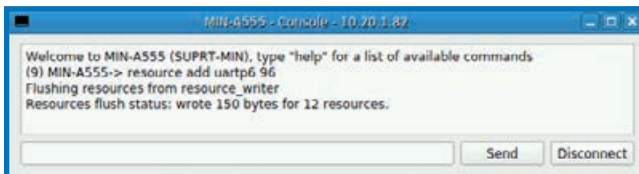
- When the Console window opens, place the cursor in the command box at the bottom and type the following:

```
resource add uarpt6 96
```

Your screen should look like this:



- Click and the Minimus will respond with a short message.



- With the Certis connected to the Minimus, type:

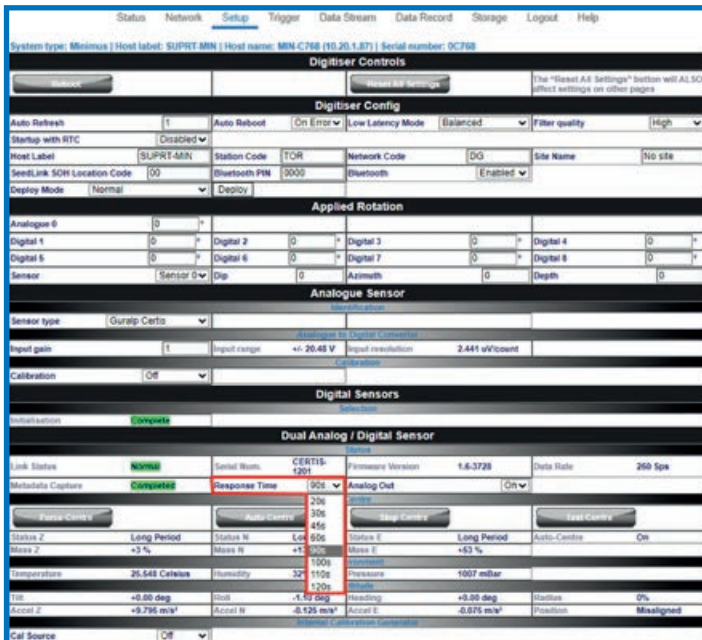
```
reboot → no output given
```

and click again to power-cycle the digitiser. Click to end the console session and close the Console. It will auto disconnect after 20s with a Reconnect button becoming interactable.

When it has finished rebooting, the Minimus will communicate digitally with the Certis.

Configure the Response

Open the web interface of the Minimus and navigate to the **Setup** tab. Scroll down to the **Dual Analog/Digital Sensor** section.



The screenshot shows the 'Setup' tab of the Minimus web interface. The 'Dual Analog / Digital Sensor' section is expanded, displaying various sensor parameters and their current values. The 'Response Time' is highlighted in red, indicating the current long-period corner of the frequency response.

System type: Minimus Host label: SUPRT-MIN Host name: MIN-C768 (10.20.1.87) Serial number: 0C768			
Digitiser Controls			
<input type="button" value="Refresh"/> <input type="button" value="Reset All Settings"/>			
The "Reset All Settings" button will affect settings on other pages			
Digitiser Config			
Auto Refresh	1	Auto Reboot	On Error
Startup with RTC	Disabled	Low Latency Mode	Balanced
Host Label	SUPRT-MIN	Station Code	TOR
SendLink SW Location Code	00	Bluetooth PIN	0000
Deploy Mode	Normal	Bluetooth	Enabled
Applied Rotation			
Analog 0	0	Digital 1	0
Digital 2	0	Digital 3	0
Digital 4	0	Digital 5	0
Digital 6	0	Digital 7	0
Digital 8	0	Digital 9	0
Sensor	Sensor 0	Dip	0
Analogue Sensor			
Sensor type: Guralp-Certa			
Input range: +/- 20.48 V			
Input resolution: 2.441 uV/count			
Calibration: Off			
Digital Sensors			
Dual Analog / Digital Sensor			
Link Status	Normal	Serial Root	CERTIS-1201
Metadata Capture	Completed	Response Time	901
<input type="button" value="Start Capture"/> <input type="button" value="Stop Capture"/>		<input type="button" value="Start Config"/> <input type="button" value="Save Config"/>	
Status Z	Long Period	Status N	Long Period
Mass Z	+3 %	Mass N	+3 %
Temperature	25.548 Celsius	Humidity	32 %
Tilt	+0.00 deg	Roll	-1.50 deg
Accel Z	+9.795 m/s²	Accel N	-0.125 m/s²
Cal Source		Off	

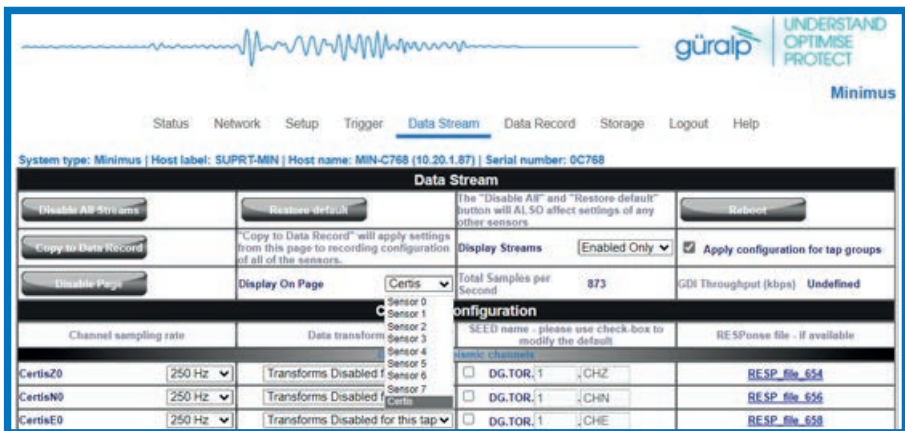
The current long-period corner of the frequency response is shown as **Response Time**.

Select the desired long-period corner and wait for a few seconds for the instrument to adjust.

The **Response Time** value will change to show the new response once the process is complete.

Configure the Sample Rate

The outputs of a Certis can be streamed and/or saved to the Minimus' SD card. The three main seismic channels can be found by selecting "Certis" from the "display on page" drop-down menu. They are CertisZ0, CertisN0 and CertisE0.



Channel	Channel sampling rate	Data transform
CertisZ0	250 Hz	Transforms Disabled for this tap
CertisN0	250 Hz	Transforms Disabled for this tap
CertisE0	250 Hz	Transforms Disabled for this tap

Sample rates for streamed and recorded channels can be configured via the Minimus' web interface, using the Data Stream and Data Record tabs respectively.

Note: Each of these tabs has a drop-down menu called **Display Streams**, located just above the **Channels Configuration** section. It offers the choice of **Enabled Only**, **Disabled Only** and **All**. If the channels that you wish to configure do not appear in the table below, set this control to **All** or **Disabled Only**, configure the desired sample rates for the missing channels and then set this control back to **Enabled Only**.

Next Steps

For detailed information on usage, control and configuration of the Radian Güralp highly recommends first reading the **Minimus Manual MAN-MIN-0001**:

www.guralp.com/documents/MAN-MIN-0001

Followed by the **Certis Manual MAN-CER-0002**:

www.guralp.com/documents/MAN-CER-0002

It may also be important to update firmware on the Minimus - refer to Section 5.18 of MAN-MIN-0001 for more details.





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Quality Certificate

It is hereby certified that the product identified below has been fully tested and calibrated in accordance with the Güralp Quality Assurance Program.

It is further certified that any product designed and manufactured by Güralp Systems Ltd is carried out in accordance with the applicable Original Manufacturer Approvals.

The Güralp Quality Management System has been assessed and is certified to meet the requirements of ISO 9001:2015 for the design and manufacture of low noise Broadband Seismometers, Accelerometers, Digitisers and associated networking equipment.

All our calibrated reference equipment is certified by an independent test laboratory, and in compliance with the international standard ISO/IEC 17025:2005.

Certificate Serial Number:

Product Serial / BatchNo:

Final Quality Approval:

Date of Issue:

Notes

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