HOW TO:
Use MESA tablet with terminal CorrLog

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1. INTRODUCTION TO MESA

The Juniper MESA 2 is a tablet windows computer. It functions like any other windows computers, but has some additional buttons and modes. The most important functions are listed below.

You can switch between tablet and normal windows mode:

![Tablet mode button]

You can view open applications by touching this button:

![Open applications button]

Clicking the MESA hardware button p3, will bring up the keyboard whenever needed.
### 2. EQUIPMENT NEEDED

- MESA tablet with MultiTrend installed
- Serial cable for connection to the CorrLog

If a different cable than the supplied cable is to be used, like e.g. *MC/ML RS232 PN 22782_B*, the Rx and Tx connections need to be swapped on the CorrLog’s terminal board.

The MC/ML 22782 cable does not fit into the com-port that is located on the backside of the MESA. A USB-to-Serial adapter would then be preferred.

If the MESA com-port is to be used, these preferable settings can be set by running the **RS232 Settings** application on the MESA:
3. MULTITREND CONFIGURATION

The MultiTrend configuration will only consist of a com port and unconnected loggers with probes. Only 1 logger can be connected to the com-port at once.

Note: You need to drag and drop the CorrLogs between the com-port and the unconnected section when moving to the next CorrLog in field. Use a pen intended for touch screens. The MESA comes with a touch screen pen.

Always use Advanced Service mode in MultiTrend when operating the MESA:

For ER corrosion probes, use an Integration period of at least 1 day:
4. SETTING UP THE CORRLOGS IN MULTITREND

Since this is a direct RS232 connection, logger address settings are ignored. It will not matter what the rotary switch is set to, or what address the logger has in its software settings. MultiTrend will communicate to the connected logger either way.

The CorrLogs should be added and set up in MultiTrend, before connecting the MESA to any of the loggers. The reason for this is to avoid collecting data from the wrong logger by mistake.

Recommended settings for avoiding auto collection of data, in the Commands tab:
- Turn off Automatic Retrieval of data
- Turn off Measure before retrieve
- Turn on Clear Logger Memory After Retrieval

Add all CorrLogs with correct probe types, before going into field the first time. Use tag numbers in the naming, to avoid collecting data from wrong CorrLog in field. Keep in mind that the addresses are not applicable.
5. CONNECTING THE CORRLOG TO THE MESA FOR THE FIRST TIME

When all CorrLogs and probes has been added in MultiTrend, it is time to set up the loggers in field.

*Note:* The Juniper MESA 2 is not Ex certified. Hot work permit is needed.

Drag and drop the applicable CorrLog to the com-port in MultiTrend, and connect the serial cable.

Highlight the CorrLog and go to the **Status Details** tab:

Click on **Get from Instrument** to check communication and settings.

If the **On Board Clock** is wrong, click on **Synchronise** to transfer the MESA time to the logger. Make sure the MESA time/date is correct first.
Go to the **Commands** tab to set up measurement interval:

![Image of MESA tablet with terminal CorrLog](image)

Click on the **Change** button, and enter the desired measurement interval. Make sure that **Automatic Measure** is set to **ON**.

Go back to the **Commands** tab, and click **Get from Instrument**. Verify the measurement interval is correct and that it is set to measure automatically.
6. COLLECTING DATA FROM THE CORRLOGS

- Set MultiTrend in **Advanced Service** mode:

- Drag and drop the correct CorrLog to the com-port in MultiTrend:

- Connect the serial cable between the MESA and the logger

- Verify communication and check that the logger has measurements in the **buffer**, by clicking **Get from Instrument** in the **Status Details** tab:

- Go to the **Commands** tab and retrieve the measurements by clicking **Retrieve Now!**:

- Click on the probe and verify that measurements have been stored:
- Disconnect the cable and drag/drop the CorrLog to the Unconnected section in MultiTrend:

![Unconnected Section Diagram]

Perform the above steps for each logger in field.

If there is a centralized server or similar, the .mcf and the .mdb can be copied from the MESA using a USB memory stick.