



Ref: FAQ0100

Version: 1.0

Title – Pressure Transient set up

Made By: AB 17/07/15

(Issue 1)

Typical set up for a Pressure transient logger

This guide details a typical Pressure Transient configuration with explanations of what the settings do.

Set the Start time and date for the test you want to perform.

A standard log interval of 15 minutes is typical
A sample interval of 30 seconds is typical

The above settings mean that during normal conditions (i.e. no transient event) the logger will log the average of readings every 30 seconds every 15 minutes

Set the sample frequency as required 100Hz is the fastest but generates very large amounts of data – do you need this level of sampling – if not use a lower frequency

If you select Recording triggered on alarm event the 100Hz recording will only start when the alarm level is exceeded – set alarm levels later

Once the transient is detected this setting defines the 100Hz recording period - in this case 5 seconds before the transient and for a duration of 30 seconds

This sets the recording channels – in this min and max pressures will be recorded

The screenshot shows the 'HWM IDT (Installer mode) V2.00.06' window. The 'Setup' tab is active, and the 'Transient logger Data' sub-tab is selected. The 'Device on COM9' section shows the logger type as 'FW-138-002 V2.40 (Recording)', ID as '_UPT004', and Serial No. as '0000004'. The 'Logging Parameters' section shows 'Start Time' as '17 Jul 2015 10:15:00', 'Log Interval' as '15 minutes', and 'Sample Interval' as '00:00:30'. The 'Transient / Secondary logging' section shows 'Sample Frequency (samples/sec)' as '100', 'Transient / Secondary Mode' as 'Recording triggered on alarm event', 'Data stored before each recording' as '5 seconds', and 'Duration of each recording' as '30 seconds'. The 'Logging Channels' section shows 'Ch1' as 'Pressure1 Min' and 'Ch2' as 'Pressure1 Max'. The 'APN' section shows 'Use GPRS test to choose APN settings' selected. At the bottom, there are buttons for 'Copy Logger', 'Read Logger', 'Expand Groups', and 'GPRS Test'.



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The GPRS set up is as you would normally use for a Radcom GPRS data logger so is not detailed here.

The alarm settings define the parameters which would trigger the transient recording at 100Hz

Set Condition 1 to be the upper and lower alarm conditions

If the pressure exceeds 75 then the 100Hz transient recording starts

If the pressure goes below zero then the 100Hz transient recording starts

If you hover your mouse over the alarm options you will get an explanation of each

The screenshot shows the 'Alarms' configuration window. Red arrows point from the text boxes to the following elements:

- Arrow 1 points to 'Cond 1' in the 'Transient alarm conditions 1' section.
- Arrow 2 points to the 'Lower' checkbox in the 'Lower' section.
- Arrow 3 points to the 'Upper' checkbox in the 'Upper' section.
- Arrow 4 points to the 'Lower' level input field (0.00).
- Arrow 5 points to the 'Upper' level input field (75.00).
- Arrow 6 points to the 'Lower' label in the 'Lower' section.
- Arrow 7 points to the 'Upper' label in the 'Upper' section.
- Arrow 8 points to the 'ROC' label in the 'ROC' section.
- Arrow 9 points to the 'Dif>' label in the 'Dif>' section.
- Arrow 10 points to the 'Dif<' label in the 'Dif<' section.
- Arrow 11 points to the 'Out Band' label in the 'Out Band' section.
- Arrow 12 points to the 'In Band' label in the 'In Band' section.

The 'Alarms' window includes the following sections:

- Call frequency while in alarm:** 10:00
- MNF Window end hh:mm:** 06:00
- Flow level units:** Litres/sec
- ☐ Alarms sent via SMS
- ☐ Disable notifications when alarm condition cleared
- ☐ Resend active alarms at midnight
- ☒ Disable alarm fast call frequency
- Cond 1** | Cond 2 | Cond 3 | Cond 4 | Cond 5 | Cond 6
- Transient alarm conditions 1**
- Lower level 1:** 0.00
- Upper level 1:** 75.00
- Lower:** ☒ Lower
- Upper:** ☒ Upper
- Minimum Night Flow:** ☐ Minimum Night Flow
- Rate of Change:** ☐ Rate of Change
- Difference:** ☐ Difference
- Out of Band:** ☐ Out of Band
- In Band:** ☐ In Band
- Copy Logger**

Once complete Select the Set up logger button to upload the configuration to the logger.

Document History:

Edition	Date of Issue	Modification	Notes
1st	17/07/15	Release	