Documentation

EVA3001 Quick Start Guide

Version: 1.3

Table of Content

First Steps to Use EVA Software

- physical connection of reader with PC and Start Software
- connect Reader via **Connect** button or menue **File→Connect Reader**
- use button **Inventory** to test availability of tag

Select Log Mode on tag

- go to tab **Data Monitor** for selection of various temperature modes
- set **Log Mode**:
  - **Continuous** (measurement at every Log Intervall, default) or
  - **Outband** (measurement at every Log Intervall and out of defined Temp Limit range)
    - set **Temp Limit High** and **Temp Limit Low**
    - set **Temp Average** (default 0 for 2^0)
    - set **Alarm Monitor Count** (default 20)
- set Monitor Time variables
  - set **Startup Time** (default 0 min)
  - set **Log Intervall** (default 1 min)

Start Monitoring

- ensure that all settings and the calibration have been made
- klick button **Start Monitor**
- all defined settings on **Sensor Monitor** and **Sens Cap Def** would be saved to Tag and the monitoring will be started
- wait until **Logging Started ...**

Tab Data Monitor

Get Monitor Status

At first it is possible to use the button **"Get Monitor Status".** This shows the current status of the Data Monitor in text field. At every cycle of the monitoring it is possible this way to see the actual status of the tag.

Log Mode

The Data Monitor has two **"Log Mode"** definitions.

In **"Continuous"** mode the chip will sample and log data after the **"Startup Time"** at every **"Log Interval".**

In **"Outband"** mode the chip will sample and log data which are higher or lower than the values defined in **"Temp Limit High"** respectively **"Temp Limit Low"** after the **"Startup Time"** at every **"Log Interval"**.

Start Monitor

The button **"Start Monitor"** resets the monitor status (interrupts a running measurement), writes all configuration from the Window to the TID bank and restarts the measurement, Log Mode constrained. After this event the PE3001 tag can be used as autonomic temperature measurement system just supported by a battery.

Stop Monitor

Push the button **"Stop Monitor"** to stop any temperature measurement cycle. This button stops all measurements (timing dependent), saves all actual monitor data and displays the actual status in the Window.

Note: If Monitor is started with "Startup Time" then a stop of monitoring cycle is only possible after this Startup Time. After Startup Time it is possible to stop monitoring at any time.

Read Data Monitor

It is possible to read all monitor and tag relevant data at any time from the PE3001 tag. The main information will be displayed in the Window.

Save to a File

After successful reading of monitor data it is possible to write detailed information to an Excel-File (text file with tab-separated values) in "MonitorData_YYYYMMDD_hhmmss.xls" format. Reading back data from the PE3001 can also be done without any battery support.

Tab Graphic

Get Monitor Graphic

It is possible to use the button **"Get Monitor Graphic",** this shows the current monitored time and temperature information in a simple diagram. The x-axis shows timing information in minutes after starting monitoring. Start date is displayed in the window. The y-axis shows the temperature (°C) in relation to timing information.

The zero point of the x-axis is the Start Date and the start of the curve is the first temperature information in minutes after Startup Time (see tab “Data Monitor” -> ”Startup Time”).

Key functions to manipulate graphic curve:

'e'	- zoom in	'z'	- zoom out	's'	- zoom fit	'd'	- zoom in x
'a'	- zoom out x	'w'	- zoom in y	'x'	- zoom out y	'left'	- pan left
'right'	- pan right	'up'	- pan up	'down'	- pan down		

Notes

Contact

Germany

Stuttgart

Productivity Engineering
Process Integration GmbH
Behringstrasse 7
D-71083 Herrenberg
Germany
Phone.: +49 (0) 70322798 0
Fax: +49 (0) 70322798 29
Email: info@pe-gmbh.com

Dresden

Productivity Engineering
Process Integration GmbH
Sachsenallee 9
D-01723 Kesselsdorf
Germany
Phone.: +49 (0) 3520490 207
Fax: +49 (0) 3520490 270
Email: info@pe-gmbh.com

Important Notice