Intrinsically Safe Paperless Recorder

ExTrend 200i

- TFT LCD module with an active area of 115,2 x 86,4 mm
  ¼ VGA resolution with 320 x 240 pixel

- 3 channel or 6 channel version available. The analogue inputs are multifunctional for the following signals:

    o 4-20 mA, passive
    o 4-20 mA, active for the direct connection of a 2- wire transmitter
    o PT 100, 3- wire connection

- Indication:

    o Waterfall recorder chart
    o Bargraph indication
    o Indication of digital values
    o Alarm & batch lists
    o Log file

- Software structure conform to the rules of the FDA 21 CFR Part 11

Data storage:

With a 512 MByte memory and storage rate of 1 value per channel per second it is possible to record for more then 5 weeks. The stored data can be read out in blocks by the MODBUS serial interface. The maximum storage rate is 2 values / second

Two types of data are stored:

1. The measured values:
Date / time / the 6 measured values with decimal points and units / status of the digital inputs / status of the alarms / 3 spare words / check sum
2. Log file entries
Date / time / user / data like parameter changes, alarm changes, batch start & stop …/check sum

Software structure conform to the rules of the FDA 21 CFR Part 11

User authorisation management:

- Up to 30 users
- Log in via a code and user name
- Different authorisation levels

The following actions are stored in log files:

- Parameter changes
- Alarm status changes
- Batch start/stop
- Status changes of the digital inputs

Colour settings:

The 16 colours of the recorder can be customised using the RGB colour palette.
The colour of the 6 pen lines, the texts, the background and the symbols can be selected out of the 16 colours.
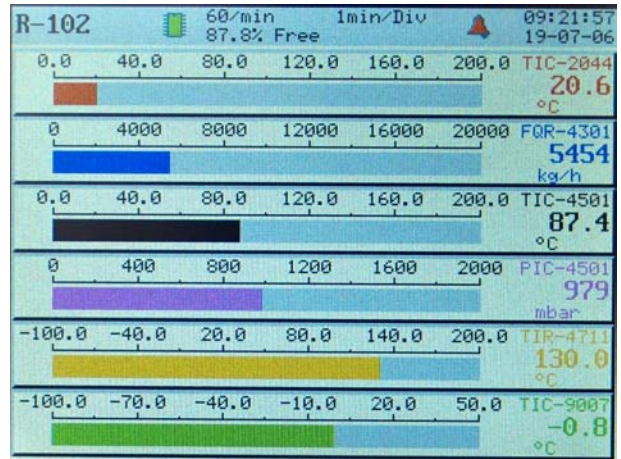
Indication of Groups:

It is possible to define 6 indication groups. The indication can be switched by the keypad. It is possible to show the 6 analogue inputs and the status of the 6 digital inputs.
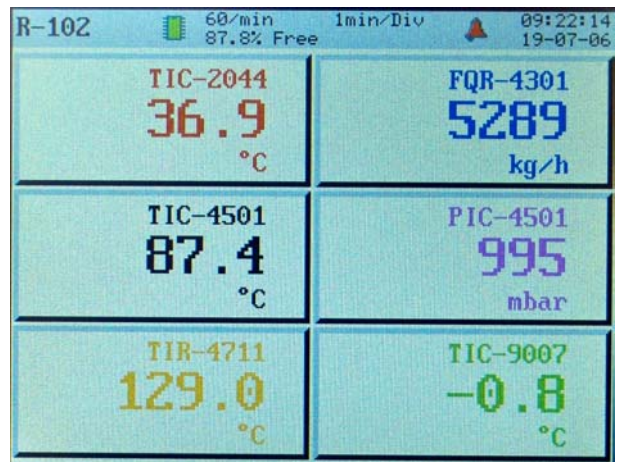Example:

Group 1 = Reactor R 102
Group 2 = Reactor R 103

Bargraph Indication:

Digital Indication:

Technical data:

- Powered by 2 channel Exi supply

- 3 or optional 6 analogue inputs:

    - 4 – 20 mA passive
    - 4 – 20 mA active for a direct connection of a 2 wire transmitter
    - Pt 100 in 3- wire connection

- 6 digital outputs, passive, voltage free for alarm outputs

- 6 digital inputs, for the connection of passive contacts

- Intrinsically safe RS485 MODBUS interface for the data download

- Dimensions Housing:
  144 x 144 x 115 mm (w x h x d)

- IP rate front: IP65