



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



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Manufacturer Information

for users regarding software updates
(following the NAMUR recommendation 53)

1 Type of device

- ☒ Field device / signal processing device
- ☐ Monitoring- / operation system / hand held terminal etc.
- ☐ Modem / interface

Manufacturer : Endress+Hauser Wetzer GmbH+Co. KG

Device : iTEMP / HART

Type : TMT162

Previous software version : 1.02.xx

How can the previous software version number be identified:

Device revision via HART command # 0

Software revision using operating tools / operating software
(ReadWin 2000, Fieldcare, AMS, PDM, DXR 275, DXR 375)

2 Firmware/Software

New firm-/software version : 1.03.xx

Description of the modification in comparison with the predecessor version:

Sensor-transmitter matching: Linearization with polynomial and Callendar van Dusen coefficients

Trimming function (+/- 0.150 mA) for 4..20 mA output

Display of polling address in multi-drop mode

Display output when backup mode is active

Measured value resolution can be set (0, 1, or 2 decimal places)

Display of measured value as percentage value

"Hold" function (0, 2, or 5 seconds) for error signal output

Value for "High alarm" (21.6..23 mA) can be set

Temperature-dependent changeover function from sensor 1 to sensor 2

Additional linearization curves for Pt100 SAMA, Cu10, Ni120

Edison Curve No. 7, Pt200 IEC, Pt50 GOST, Pt100 GOST, Cu100 GOST

Additional modes for PV: PV = sensor 1, sensor 2, difference sensor 1-sensor 2, average value sensor 1/sensor 2, backup sensor value, current measured value following temperature-dependent changeover



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3 Compatibility

Is the newly installed firmware/software compatible with the operating tools?

- ☐ Yes
☒ No, description:

Device designation/tool: 1)
Update: 2)
Function with previous version of operating tool: 3)

1) DXR 275 - handheld
2) Send DXR 275 control unit to manufacturer (Emerson) or E+H Flowtec for update
3) A message is displayed during connection establishment informing the user that a new device software is installed. The "old" DD can be used, the new functions of SW 1.03.xx are not available, however.

1) DXR 375 - handheld
2) Update of the DD via IR interface, download of the DD from the Emerson Internet home page from February 2005 onwards
3) A message is displayed during connection establishment informing the user that a new device software is installed. The "old" DD can be used, the new functions of SW 1.03.xx are not available, however.

1) ReadWin 2000
2) Download for update under www.readwin2000.com
3) Features of the new SW 1.03.xx are supported from ReadWin 2000 Version 1.16.2 onwards. For ReadWin 2000 Version < 1.16.2: Connection to device cannot be established !

1) Fieldcare
2) DTM available from May 2005 onwards
3) Operation is possible, the new functions of SW 1.03.xx are not available, however.

1) AMS (Emerson)
2) Download for AMS update can be found on E+H home page
3) Versions < 6.2: Identification as "Generic Device"
Versions > 6.2: Operation is possible, the new functions of SW 1.03.xx are not available, however.

1) PDM (Siemens)
2) Download for PDM update can be found on E+H home page
3) Operation is possible, the new functions of SW 1.03.xx are not available, however.

Manufacturer Information

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Is a firm-/software update generally recommended?

☐ Yes, reasons:

The firm-/software update can be performed by means of ...

Replacement of main electronics in TMT162 device

☒ No, reasons:

The reasons for the new software version are the additional features listed in Chapter 2, "Description of the modification in comparison with the predecessor version".

If the additional features are not required to operate the measurement system, software update is not necessary.

4 Instruction manual

Is a new instruction manual necessary due to the modification of the firm-/software?

☒ Yes

☐ No

Which manual corresponds to the new firm-/software:

Device	Communication options	Manual	Marking
TMT162	HART	Operating Manual	BA132R/09/en/08.04

The new instruction manuals can be referred in Internet:

<http://www.endress.com> - area „DOWNLOAD“
- declaration of the device and kind of manual

5 Price

Change in price of device in comparison with the predecessor version?

☐ Yes, new list price and update costs (without installation) are enclosed

☒ No