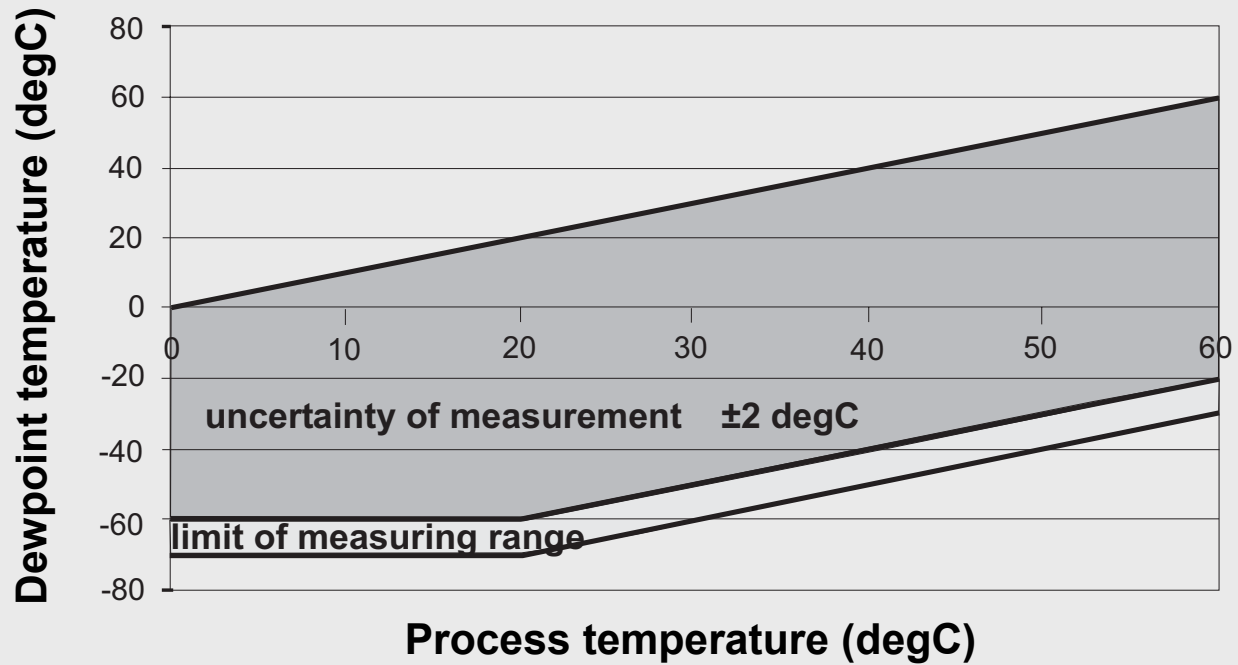


***Accurate Dewpoint
Measurement
with the
EE35***

TRANSMITTERS FOR DEWPOINT MEASUREMENT
EE35 SERIES



TECHNICAL DATA

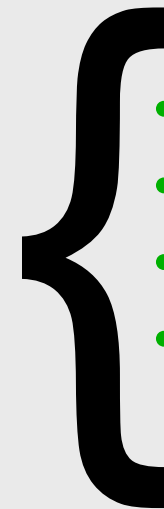


TECHNICAL DATA

Response time t90	-20 degC \Rightarrow -40 degC	80 sec.
	-40 degC \Rightarrow -20 degC	10 sec.
Supply voltage	SELV 8...48V DC or SELV 12...35V AC	
Pressure range	0...10bar	
Working temperature range	probe:	-40...+60 degC
	electronic:	-40...+60 degC
	with LCD display:	-20...+50 degC
	with alarm module:	-40...+60 degC
Electromagnetic compatibility according to	EN61326-1:1997 + note1:1998 CE	

SCALEABLE OUTPUTS

- 1.** temperature
- 2.** dew point temperature
- 3.** frost point temperature



- current output
- voltage output
- alarm output
- display

DOT MATRIX LCD



display: 128 x 32 pixel

RELAIS ADJUSTMENT



2 CONTROL LED's



function control, error coding

PLUGGABLE PROBE CABLE



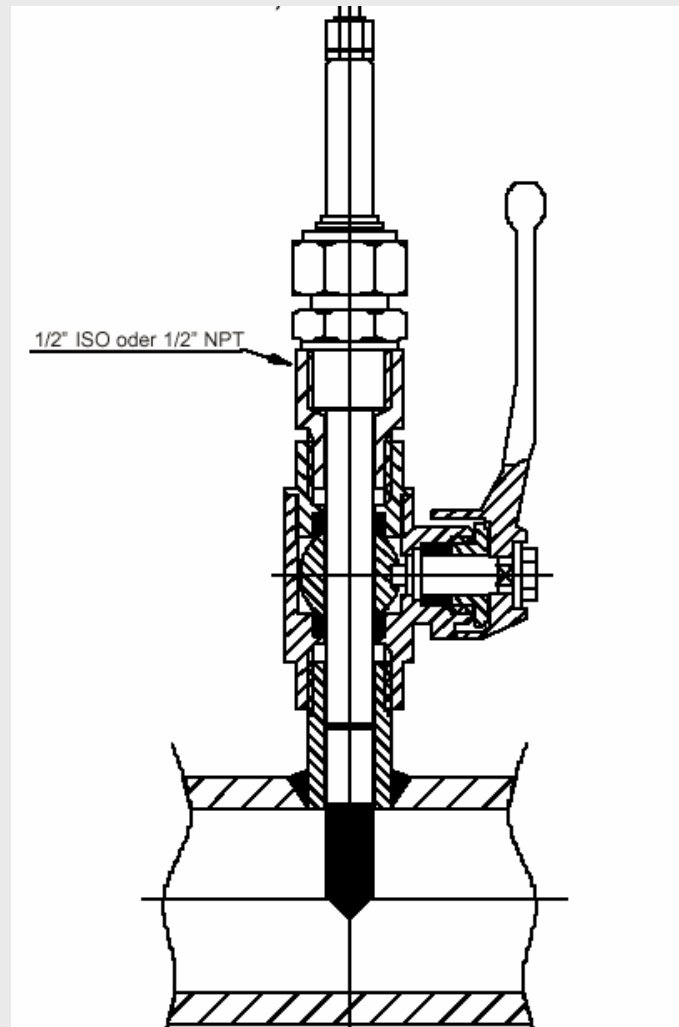
up to 10m



REMOVEABLE PROBE



BALL VALVE SET



What is accurate?

- Td range standard:
-40°C ... 60°C, uncertainty $\pm 2^\circ\text{C}$
0.81%RH, uncertainty $\pm 0.17\%RH$
- Td range special:
-60°C ... 60°C, uncertainty $\pm 2^\circ\text{C}$
0.08%RH, uncertainty $\pm 0.01\%RH$

How is this possible?

- 1.) long-term stable sensors**
- 2.) exact knowledge about characteristic**
- 3.) smart algorithm**

DEWPOINT SENSOR



NEW AUTOCALIBRATION

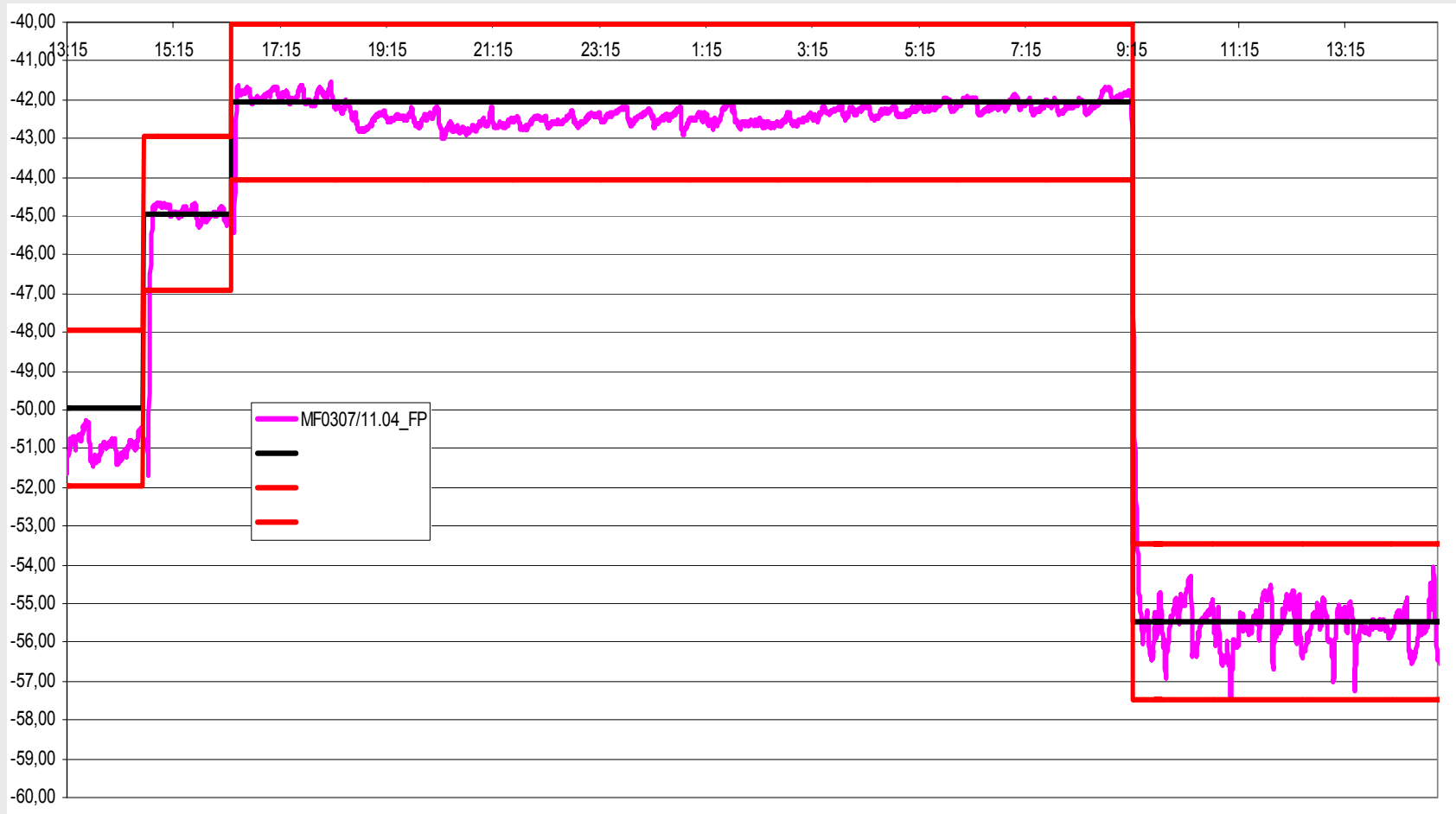
20°C ... 0.39%RH

C76=491.8pF FK=3028.6ppm

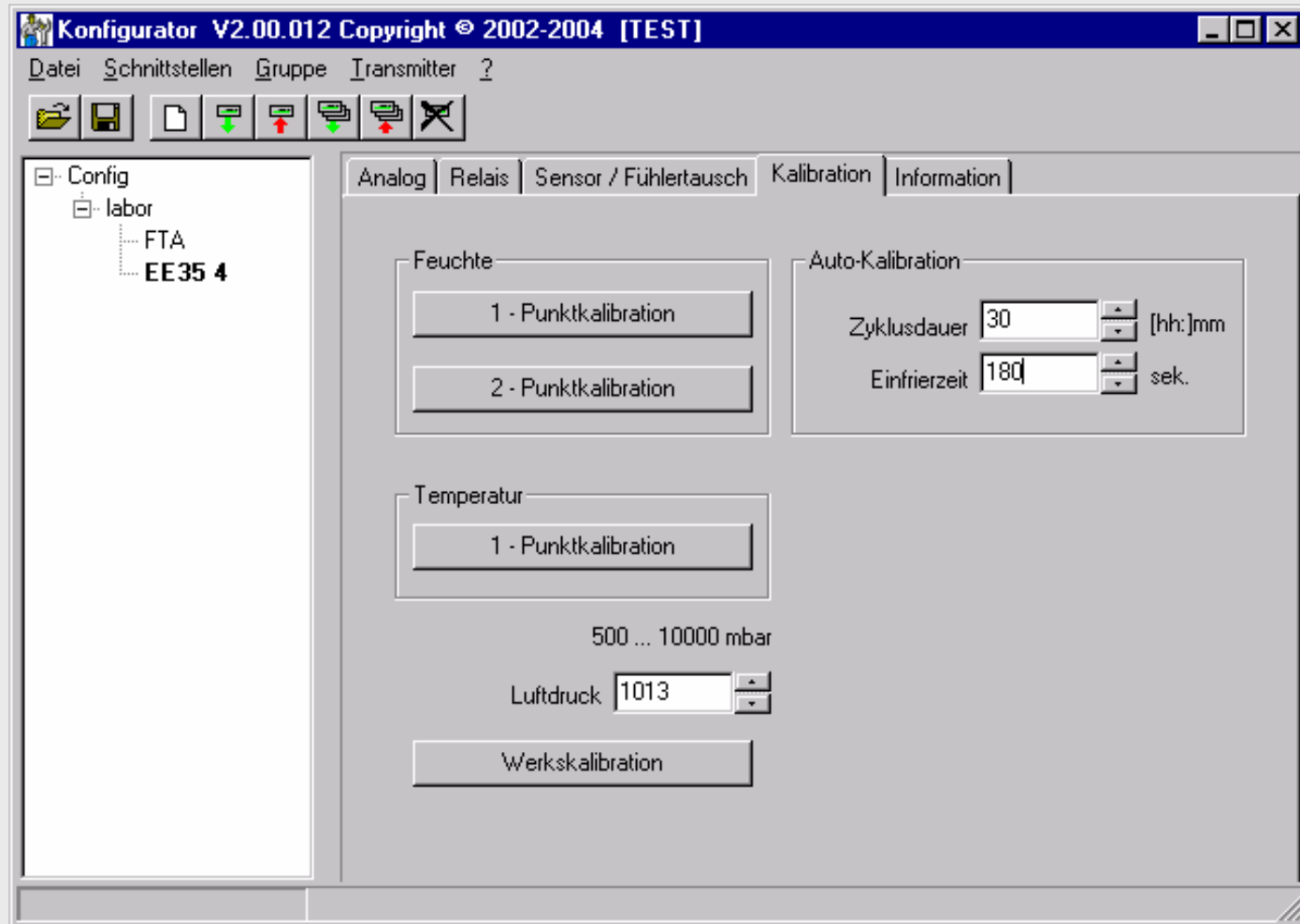
autocalibration ...
120°C ... -0.01%RH

New sensor data:
C76=491.8pF FK=3029.2ppm

DEWPOINT ACCURACY



IMPROVED CONFIGURATION



Konfigurator V2.00.012 Copyright © 2002-2004 [TEST]

Datei Schnittstellen Gruppe Transmitter ?

Config
└─ labor
 └─ FTA
 └─ EE35 4

Analog | Relais | Sensor / Fühlertausch | **Kalibration** | Information

Feuchte

1 - Punktkalibration

2 - Punktkalibration

Auto-Kalibration

Zyklusdauer 30 [hh:]mm

Einfrierzeit 180 sek.

Temperatur

1 - Punktkalibration

500 ... 10000 mbar

Luftdruck 1013

Werkskalibration