

Drucktransmitter /Simple /Diver /Dip

Mini-Datalogger Electronic with I2C Interface and switched output power pin.

Two versions of the electronic is available:

- 1) “normal”: For 0.9 to 3.6 V power input and stabilized 3.3 V switched power out.
- 2) “simple”: For 3.3 to 3.6 V power input.

Technical data:

- 433 Mhz near field communication.
- FG2-OS.
- 2 MByte flash memory.
- Supply Voltage: see above for “simple” and “normal”
- Operation range: -40 to 80 °C.
- Standby current 7 to 10 µA (depending on version).
- HK monitoring of supply voltage.
- Current consumption during measurement: 4 to 10 mA (depending on version) for 500 mS.
- External sensor power source (switched): 3,3 to 3,6 V (depending on version), max. 3 mA.
- I2C Interface.

Firmware available for different I2C-Sensor.

Limitations:

A screenshot of a software interface. It features a label 'HK-Counter:' followed by a text input field containing the number '6'. To the right of this is a label 'Log HK:' followed by a checked checkbox and the text 'Supply'.

HK-Counter can not be smaller than ‘6’.

Version 1v4:

- Keller LD
- Pewatron KKD18

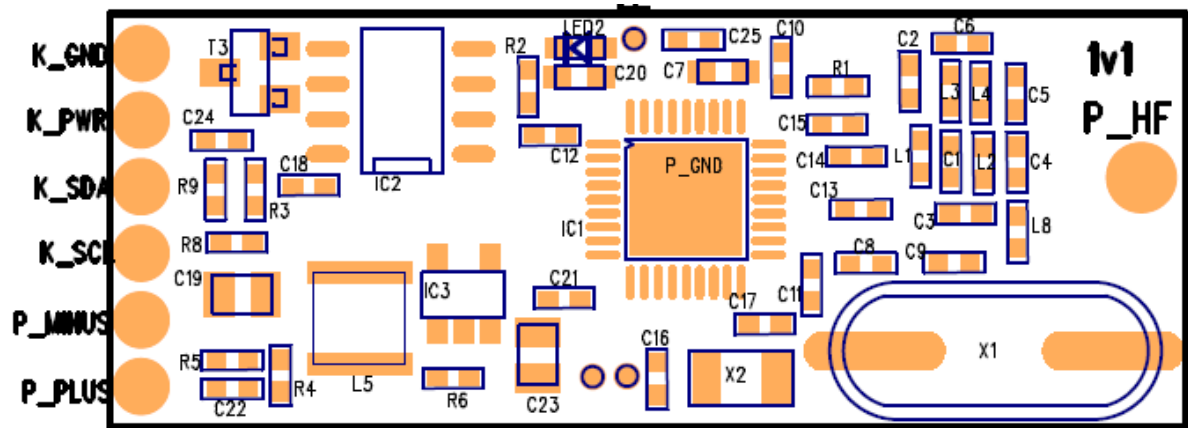
Connectors:

Power supply:

- P_Plus: +
- P_Minus: GND

Sensor connection /I2C:

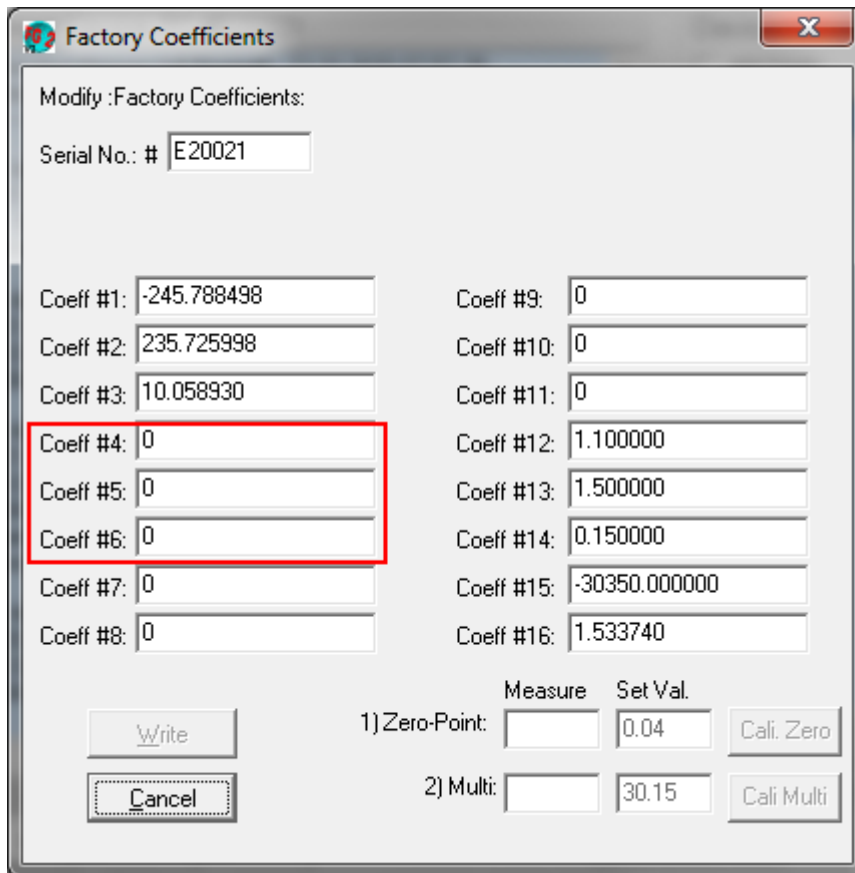
- K_SDA
- K_SCL
- K_PWR: switched power output
- K_GND



Keller LD:

Simply connect the sensor, all required calibration data will be read automatically from the sensor.

To configure the datalogger to measure the Keller-LD sensor you have to setup the following coefficients via FG2-Shell:



The image shows a software window titled "Factory Coefficients" with a close button (X) in the top right corner. The window contains a label "Modify :Factory Coefficients:" and a text field for "Serial No.: # E20021". Below this, there are two columns of coefficient input fields, numbered 1 through 16. Coefficients 4, 5, and 6 are highlighted with a red rectangular box. At the bottom left are "Write" and "Cancel" buttons. At the bottom right, there are two rows of calibration settings: "1) Zero-Point:" and "2) Multi:". Each row has a "Measure" field, a "Set Val." field, and a corresponding "Cali." button ("Cali. Zero" and "Cali Multi").

Coeff #	Value
Coeff #1:	-245.788498
Coeff #2:	235.725998
Coeff #3:	10.058930
Coeff #4:	0
Coeff #5:	0
Coeff #6:	0
Coeff #7:	0
Coeff #8:	0
Coeff #9:	0
Coeff #10:	0
Coeff #11:	0
Coeff #12:	1.100000
Coeff #13:	1.500000
Coeff #14:	0.150000
Coeff #15:	-30350.000000
Coeff #16:	1.533740

	Measure	Set Val.	
1) Zero-Point:		0.04	Cali. Zero
2) Multi:		30.15	Cali Multi

Pewatron KKD18:

To configure the datalogger to measure the Pewatron sensor you have to setup the following coefficients via FG2-Shell:

- Coeff #4: '1'
- Coeff #5: zeropoint (bar)
- Coeff #6: endpoint (bar)

Factory Coefficients

Modify : Factory Coefficients:

Serial No.: # E20021

Coeff #1: -245.788498	Coeff #9: 0
Coeff #2: 235.725998	Coeff #10: 0
Coeff #3: 10.058930	Coeff #11: 0
Coeff #4: 1.000000	Coeff #12: 1.100000
Coeff #5: 0	Coeff #13: 1.500000
Coeff #6: 2.000000	Coeff #14: 0.150000
Coeff #7: 0	Coeff #15: -30350.000000
Coeff #8: 0	Coeff #16: 1.533740

Write

Cancel

Measure Set Val.

1) Zero-Point: 0.04 Cali Zero

2) Multi: 30.15 Cali Multi

Zeropoint and endpoint depend on the exact KKD18 model. Refer to the datasheet for the exact values suiting to you model-number!

KKD18-720-V									
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Druckart									
	relativ	0	6	5					
	absolut	0	6	6					
Nenndruck [bar]									
	0,1				1	0	0	0	
	0,2				2	0	0	0	
	0,4				4	0	0	0	
	1				1	0	0	1	
	2				2	0	0	1	
	5				5	0	0	1	
	10				1	0	0	2	
	20				2	0	0	2	
	50				5	0	0	2	