

UNIVERSAL INDICATOR



LCD or LED display, 48 x 96 mm

Programmable via PC

Galvanic isolation, 3.75 kVAC

Trip amplifiers and analogue output

Universal voltage supply

Protection IP65



General:

The PReview indicator is configured to the present application by means of a PC using the installation program PReset 5000 with associated optical link for communication between indicator and a DOS-based PC.

Opto Link 5901 is a configuration kit containing an optical link, a PC cable and the program PReset 5000 for set up of the 5111 and the 5511.

The indicator is configured from factory according to specifications or the user can do the configuration himself by means of the PReset 5000 program.

The indicator input can be programmed as a TC, an RTD and a resistance input and a unipolar or bipolar mV, mA and voltage input. The output (option) can be a unipolar / bipolar current or voltage signal.

Furthermore it is possible to insert special linearisation algorithms e.g. in connection with measurement of non-linear signals. By the relay option it is possible to insert limit values and achieve digital on/off signals in connection with temperature sensors or current / voltage signals.

Input types:

Thermocouple input: (TC) with 15 bit bipolar resolution for standard thermocouples in the temperature ranges acc. to the IEC 584, the DIN 43710 or ASTM E988-90 standards. The CJC function is implemented with a Pt100 sensor in the terminal (option - type no. 5911), external Pt100 sensor or fixed CJC (thermostat box).

Sensor error detection available.

RTD input in ranges with 16 bit resolution for Pt100, Ni100 in temperature ranges acc. to the IEC 751/ DIN 43760 standards. Set-up of main type is possible in multipla (e.g. Pt50 and Ni1000).

Automatic cable compensation by 3- or 4-wire sensor connection. By 2-wire sensor connection it is possible to compensate cable resistance with the function keys directly from the front cover.

Sensor error detection available.

Resistance input in ranges with 16 bit resolution for resistance measurement. Max. range 5 k Ω . Cable compensation by 3- or 4-wire connection. 0% and 100% process calibration is possible with the function keys directly from the front cover.

Cable breakage detection available.

Current input in ranges with a 15 bit bipolar resolution for DC current signals. 0% and 100% process calibration is possible with the function keys directly from the front cover. Cable breakage detection available on 4...20 mA signals.

Voltage input in ranges with a 15 bit bipolar resolution for DC voltage signals, 3-wire potentiometer, load cells, pressure transducers etc. 0% and 100% process calibration is possible with the function keys directly from the front cover.

Auxiliary supplies:

(Selected by internal dipswitches).

Loop supply 20 VDC / 20 mA for supply of 2-wire transmitter.

Reference voltage 2.5 VDC, 15 mA as reference for 3-wire potentiometers e.g. as position indicator from analogue valves etc.

Excitation voltage 8 VDC, 25 mA for supply of load cells, pressure transducers etc.

Outputs: (option)

(Selected by internal dipswitches).

Current output with 13 bit bipolar resolution programmable in the range ± 20 mA by a maximum offset of 75% of max. output value.

Voltage output with 13 bit bipolar resolution in the ranges ± 1 VDC and ± 10 VDC. Max. load 20 mA.

Relay output (relay 1 and 2) is selected as a make or break function. The relays can be used as trip amplifier or / and sensor / cable error alarm for a TC, an RTD, a resistance input and current input.

Display:

4½-digit LCD or LED display with 14 mm digit height. Max. display readout ± 19999 with selectable decimal point, relay ON/OFF indication and tendency readout for the input signal.

From the function keys in the front it is possible to change the limit values and delay for relays, display updating time, display scaling, decimal point, resolution on the last digit, analogue output scaling and calibration of cable resistance.

Furthermore, the LCD display has bargraph indication and the light intensity of the LED display can be changed.

Special version - 5511WEIG:

A special version of the 5511 display can be ordered for applications demanding a faster response time and easy access to »0« point calibration, e.g. weigh conveyors. 5511WEIG is suitable where the input signal is load cell, mV, V or mA.

OPTIONS INDEX FOR THE 5511 PReview INDICATOR:

(Use this as a checklist when ordering configured units)

INPUT				
RTD type: Pt100 (DIN/IEC) Pt n (100 x n) (e.g. 10 = Pt1000) Ni100 Ni n (100 x n) (e.g. 5 = Ni500)	Thermocouple type: Pt30%Rh-Pt6%Rh: type B NiCr-CuNi : type E Fe-CuNi : type J NiCr-Ni : type K Fe-CuNi : type L NiCrSi-NiSi : type N Pt13%Rh-Pt : type R Pt10%Rh-Pt : type S Cu-CuNi : type T Cu-CuNi : type U W3%Re/W25%Re : type W3 W5%Re/W26%Re : type W5	Linear resistance range: (10 range 5000)	Voltage range: ±20 mV range 240 VDC * Voltage range includes bridge input for load cells (min. range ±5 mV) and 3-wire potentiometer input.	mA range input: ±2 mA range 100 mA
Specify range °C: ____	Specify range °C : ____	Specify range : ____	Specify range VDC: ____ Specify range mV: ____	Specify range mA: ____

Linearisation Standard linearisation RTD, TC:	Linearisation No linearisation Customer linearisation (specify):
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RTD options: 2-wire, fixed line resistance: 2-wire, external calibration: 3-wire compensation: 4-wire compensation: Differential input:	TC options: Internal CJC (Pt100): External CJC (Pt100): Fixed external CJC: (specify °C) Differential input:	Resistance options: 2-wire, fixed line resistance: 2-wire, external calibration: 3-wire compensation: 4-wire compensation: Differential input:	Voltage options: Vref.: 2.5 VDC (e.g. potentiometer input as voltage divider) Vexcitation: 8 VDC (e.g. bridge input from load cells)	mA options: Loop supply: 20 VDC
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Process calibration: 0% calibration 0% and 100% calibration No process calibration
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OUTPUT	
Voltage output: 0.25 VDC range ±1 VDC 2.5 VDC range ±10 VDC Output voltage 0% (specify): ____ Output voltage 100% (specify): ____ Voltage limit value ±11.5 VDC:	mA output: ±5 mA range ±20 mA Output current 0% (specify): ____ Output current 100% (specify): ____ Current limit value ±23.5 mA:

Response time: 625 ms response time 250 s

Relay 1 & 2 options:
Relay setpoint: % of output span Units of analogue input Units of analogue output Relay delay

Relay action:		
Increase Decrease	Sensor error	Off

Relay sensor error action:
High Low Hold No sensor error

Relay contact function:
Contact N.O. Contact N.C.

Display options: 0% display value 100% display value Display intensity 1...15 (default 10) (LED display only) Decimal point XXXXX: Decimal point XXXX.X: Decimal point XXX.XX: Decimal point XX.XXX: Decimal point X.XXXX: Display updating time (250 ms to 20 s in steps of 50 ms): Full resolution last digit Even resolution on last digit (0, 2, 4, 6, 8) Half resolution on last digit (0, 5) Last digit fixed zero:

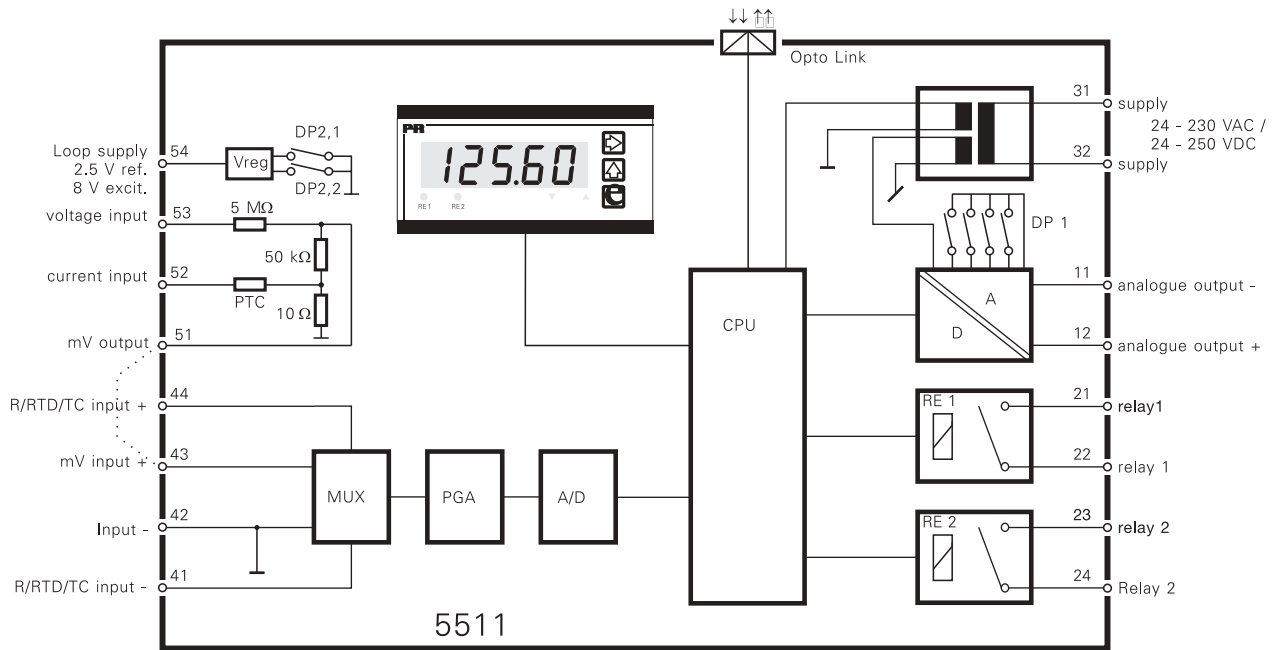
Order: 5511

Type	Version	Output option	Display option
5511	Standard version : A	No option : 1 Analogue output + 2 relays : 2	LED display : A LCD display : B

Note! For TC inputs with internal CJC, remember to order the CJC connector type 5911.

Order: 5511WEIG
(special version of the 5511A2A)

Block diagram:



Mechanical specifications:

