

# Power pack with additional functions

## SINEAX B 811, EURAX B 811, SIRAX B 811

- Electric isolation of all circuits
- Conversion to different signal ranges
- Designed for FSK communication (HART- or user-specific protocol)
- Hand-held programming via the intrinsically safe terminals is included in the approval
- Circuit monitoring

### Type of protection



[EEx ia] IIC

### Certificates

Mechanical design		Czech rep.
Housing S17	PTB 97 ATEX 2083	FTZU 97 Ex 0009X
Plug-in modul EURAX	PTB 97 ATEX 2169X *)	/
Plug-in modul SIRAX	PTB 97 ATEX 2083	/

### Input circuit

$U_o = 21\text{ V}$   
 $I_o = 75\text{ mA}$   
 $P_o = 660\text{ mW}$   
 Trapezoidal characteristic

	Both $L_o$ and $C_o$			
	IIC	IIB	IIC	IIB
$L_o$	6.7 mH	25 mH	0.5 mH	5 mH
$C_o$	178 nF	1260 nF	54 nF	220 nF

	Output	Power supply	Contact circuit
Rated data	15 V / 25 mA	24-60 V resp. 85-230 V AC / 110 V DC	250 V AC / 2 A resp. 125 V DC / 0.24 A resp. 30 V / 1 A
$U_m$	253 V	253 V AC resp. 125 V DC	253 V

### Verification of Intrinsic Safety acc. to EN 60 079-14

A certified intrinsically safe circuit of a hand-held terminal for communication with an interconnected intelligent measuring transducer may also be connected to the terminal clamps 1, 2 resp. 6, 7 resp. to the connections 1, 3 resp. 4, 2 considering the following maximum values:

maximum values  $U_i = 9,4\text{ V}$   
 $I_i = 25\text{ mA}$   
 $P_i = 60\text{ mW}$

If a hand-held terminal is connected, the interconnection determines the maximum values of the measuring-supply-circuit as mentioned below. The category "ia" is only possible, if the intrinsically safe circuit of the hand-held terminal corresponds to category "ia" too.

Measuring-supply-circuit (terminal clamps 1, 2 resp. 6, 7 resp. connections 1, 3 resp. 4, 2) type of protection Intrinsic Safety EEx ia IIB/IIC resp. EEx ib IIB/IIC (trapezoidal output characteristic)

maximum values:  $U_o = 21\text{ V}$   
 $I_o = 100\text{ mA}$   
 $P_o = 660\text{ mW}$

	IIC	IIB
max. permissible ext. inductance	4 mH	15 mH
max. permissible ext. capacitance	178 nF	1260 nF

### \*) Special features for EURAX B 811:

The power pack must be installed in such a way that at least protection class IP 20 acc. to EN 60 529 is attained.



SINEAX B 811-1 in housing S17  
1 channel



EURAX B 811-2 as 19" plug-in module  
1 channel



SIRAX B 811-6 as plug-in module  
1 channel