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

II (1) G

Circuit monitoring

Type of protection



Certificates

Mechanical design	(Ex)	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

•			Both L	$_{\circ}$ and C $_{\circ}$	
$U_{o} = 21 V$		IIC	IIB	IIC	IIB
$I_o = 75 \text{ mA}$	Lo	6.7 mH	25 mH	0.5 mH	5 mH
$P_{o} = 660 \text{ mW}$	Co	178 nF	1260 nF	54 nF	220 nF
Trapezoidal					

Trap characteristic

	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: . . 0 1 1

maximum values

Ui	= 9,4 v
l _i	= 25 mA
Pi	= 60 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.	type of protection Intrins		Ex ia IIB/IIC Ex ib IIB/IIC	
6, 7 resp. connections 1, 3 resp. 4, 2)	(trapezoidal output characteristic)			
	maximum values:	U _o = 21	V	
		l _o = 100	mA	
		P _o = 660	mW	
			IIC	
	max. permissible ext. inc	luctance	4 mH	

max. permissible ext. capacitance

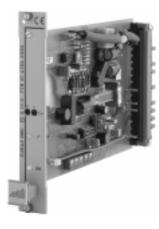
1177	
IIC	IIΒ
4 mH	15 mH
178 nF	1260 nF

*) 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