



AMKASYN
KW Option module KW-SM1
Service module analogue outputs

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AMK

About this documentation

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Use:

What has changed:

Version	Change	Subject	Letter symbol
2002/22			
2008/42		first Flare version	Bls

Further Documentation:

Target group:

Representation agreement:

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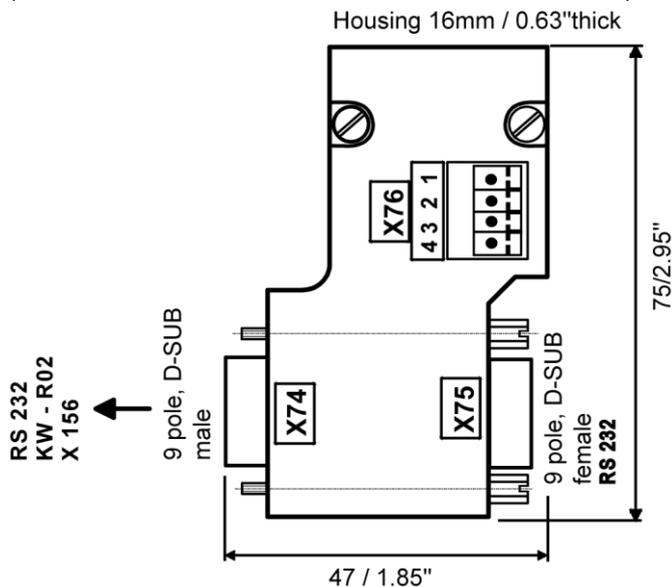
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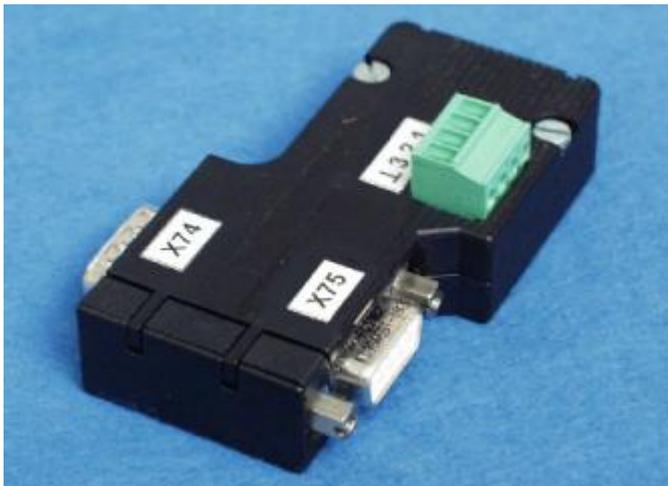
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1 KW Option module KW-SM1 Service module analog outputs

On the KW inverter module 3 analog outputs can be used additionally by plugging in the service module KW-SM1 (Condition: KW controller card KW-R02 from revision 1.06).



picture name: ZCH_KUKW_SM1_Servicemodul



picture name: ZCH_KUKW_SM1_Foto

Via D-SUB connector X74 the service module is connected to the serial interface RS232 (X135) on the controller card KW-R02. It is secured by the two hexagon bolts.

On the service module female connector X75 internally is connected in parallel to the pins on connector X74. Thus the serial interface RS232 can be used further to connect the KW panel or a PC also when KW-SM1 is in operation.

Three analog outputs are provided by the KW-SM1 service module:

Output voltage $\pm 10V$, max. 4mA, 12 bit resolution

Connection via terminal block X76:

AOUT1 Terminal 1

AOUT2 Terminal 2

AOUT3 Terminal 3

GND Terminal 4 (common ground)

1.1 Analog signal output:

Cycle time 1 ms.

Per each cycle (1 ms) the software is servicing one analog channel.

If all 3 analog channels are used the cycle time per channel then is 3 ms.

1.2 Analog output assignment

The required function for the analog outputs must be assigned by parameter setting.

“Source analog channel“ and “Final value analog channel“ (for scaling) must be defined for each analog channel through the allocated parameters:

ID32787 ”Source analog channel 1“

ID32788” Final value analog channel 1“

ID32789” Source analog channel 2“

ID32790” Final value analog channel 2“

ID32791” Source analog channel 3“

ID32792” Final value analog channel 3“

The Parameter Documentation is containing the permissible codes for ”Source analog channel“ and the data for scaling.

1.3 D-SUB connector pin assignment for X74 (male) / X75 (female):

Pin	Signal	Comments for KW-R02
	12P	maximum 200mA
2	PC_RxD	RS232 Receive Data
3	PC_TxD	RS232 Transmit Data
4	CS_DA	ST10-P4.7 I/O port
5	GND	Signal Ground
6	SCLK	ST10-P3.13 I/O port
7	MTSR	ST10-P3.9 I/O port
8	SBF	Panel status
9	n.c.	AMK reserved

1.4 Terminal assignment X76 (Phoenix Minicombicon)

Terminal	Signal	Comment
	AOUT1	Analog output 1
2	AOUT2	Analog output 2
3	AOUT3	Analog output 3
4	GND	Common ground analog outputs

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