BALOGH

Multi-Protocol Serial Control Board MELS-30/*

Identification - Coding

Reference: MELS-30/*
Each module supports one transceiver.

A=	OMA	64, 2K, or 8K bytes Read/Write TAG
P=	OP	64 byte & 96 byte Read/Write
X=	OMX	High Speed 8K & 32K byte Read/Write TAG
E=	GIE	512, 2K, 8K byte Read/Write
F=	OF or OFR	7 bytes Read-Only TAG
R=	OIR	32K & 64K Byte Read/Write Infrared TAG
L=	OL or OLR	2 byte Read-Only Extended Range TAG

Reference

*Depending on the TAG to be read or written to different firmware can be implemented. An extra letter determines the software: e.g. MELS-30/ A is meant for OMA TAG Read.

Description

The MELS-30 Control Board is a slave interface with an RS 422/ RS 485 Serial Link supporting the following protocols:
JBUS®, JBUS/ASCII®, JBUS N®, Unitelway®, DF1® half duplex, DF1® Full duplex, 3964 R®.
Switches enable the link settings.
Two parallel outputs S1 and S2 are available.
The MELS-30 Control Board controls one BALOGH Transceiver and supplies its power.
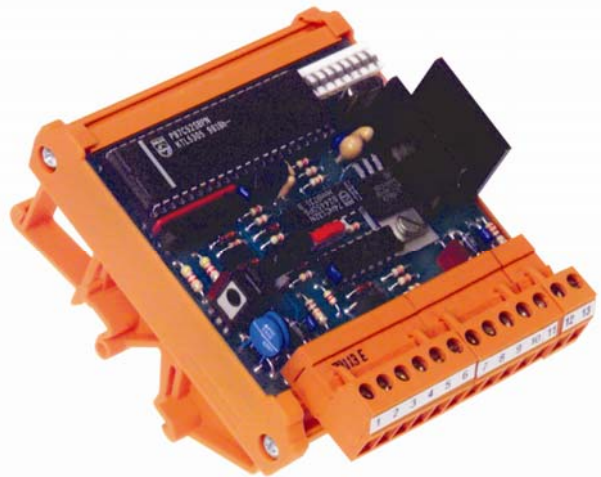
Characteristics at 25° C	Symbol	Unit	
Power Supply (<10% ripple)	Ual	VDC	24
Voltage Tolerance		VDC	+ / - 10%
Current Consumption	Io	mA	70 (not including Transceiver)
Serial Connection			1
No. Transceivers			1
No. of Parallel outputs			2
Inverse Polarity Protected			Yes
Ambient Temperature			-20 C to +70 C
Weight	Grams	G	153
Baud Rate		KBds	Up to 19.2K
RS-232 Serial line			Point to point Multi-protocol
RS-422/RS485* Serial Line			Multi-Drop/Point to Point Multi-Protocol
Protection Degree		IP	00
No. Slaves			Up to 8

Connection	RS-422	RS-232
1	Tag Presence	
2	General Fault	
3	Transceiver Ground (O) →	Pin 4 (O) on Transceiver
4	Transceiver Input (E) →	Pin 2 (S) on Transceiver
5	Transceiver Output (S) →	Pin 3 (E) on Transceiver
6	Transceiver + VCC + 24VDC (V) →	Pin 1 (V) on Transceiver
7	RS422 Common	RS232 0 Volt
8	RS422 TX -	RS232 TX
9	RS422 TX+	N/A
10	RS422 RX-	RS232 RX
11	RS422 RX+	N/A
12	Ground	
13	+24 VDC	

Note: When using BALOGH Transceiver Cables: V is Brown, S is White, E is Blue and O is Black.

*(For RS485 Jumper pin 8 to pin 10, Jumper pin 9 to pin 11)