

ML-x17 option boards

Option boards can be used to add additional inputs/features to an ML-x17 data logger or to perform signal conditioning. You can mechanically stack up to 3 option boards, but only one board per category ID (CID). Some boards are having a switch to choose a different CID, so you can stack multiple similar boards. Converter(OC) or Power (OP) boards don't have CID's and you can stack as many OC/OP-boards as mechanical feasible. OC-boards don't make use of the internal control bus, but are wired to existing inputs/outputs/ports.

Cat.	CID	SKU, Description	Ranges	Excitation	Terminals
AD	0x48 & 0x49	ML-OI-AD-80MV, Dual channel 16-bit differential input a/o to connect pyranometers or load-cells	±80mV ±40mV ±20mV ±10mV	5V@80mA (accurate)	1. Input 1 (+) 2. Input 1 (-) 3. Input 2 (+) 4. Input 2 (-) 5. Excitation 6. Ground 7. CID selector
		ML-OI-AD-2000MV, Dual channel 16-bit differential input a/o to connect thermistors or pH-probes	±2000mV ±1000mV ±500mV ±250mV	5V@80mA (accurate)	1. Input 1 (+) 2. Input 1 (-) 3. Input 2 (+) 4. Input 2 (-) 5. Excitation 6. Ground 7. CID selector
		ML-OI-AD-10V, Quad channel 16-bit single ended input	±10V ±5V ±2.5V ±1.25V	12V@80mA	1. Input 1 2. Input 2 3. Input 3 4. Input 4 5. Excitation 6. Ground 7. CID selector
		ML-OI-AD-20MA, Quad channel 16-bit single ended input Here 100 16 16 16 16 16 16 16 16 16 16 16 16 16	±20mA	12V@80mA	1. Input 1 2. Input 2 3. Input 3 4. Input 4 5. Excitation 6. Ground 7. CID selector
BARO	0x76	ML-OI-BARO , Atmospheric pressure & temperature sensor a/o to compensate readings of level sensors	3001200hPa -30+70°C	±1hPa ±1°C	
СОМ	0x4C	ML-OI-COM-UART, Serial sensor input (UART) to connect sensors with TTL UART port L-OI-COM-UART (E HAI Rev:	Tx (03.3V) Rx (05V) 300 230k4bps	3.3V	Excitation Transmit Receive Ground

		ML-OI-COM-RS232, Serial sensor input (RS232) a/o to connect an GPS-receiver	300 12V 230k4bps	 Excitation Transmit Receive Ground
		ML-OI-COM-RS485, Serial sensor input (RS485) a/o to connect a MODBUS/RTU sensor	300 12V 230k4bps	 Excitation Transmit Receive Ground
		ML-OI-COM-SDI12, SDI-12 sensor input 1. 2. 3. VIOCht HL-OI-COM-SOI12	12V	 Excitation Ground Data
ос	n/a	ML-OC-W2P, Waveform to digital pulse converter To connect flow meters or anemometer with a passive coil output	050kHz 60mV24V Pulse 0/3.6V	1. Coil input (+) 2. Coil input (-) 3. Pulse output
ОР	n/a	ML-OP-524, to power external sensors or peripherals Power switches on in parallel with logger sensor	5V@300mA, 12V@200mA, 24V@100mA 0V=Off, 324V=On 3.6V (from batteries)	1&2. Output 3&4. Ground 5. Control signal