

BIOS-CT-01

Current detection module for welding machine monitoring
5-PIN CONNECTOR UP TO 63 A + WORKS WITH BIOS-IO-01



BIOS-CT-01 is a measuring module for non-invasive detection of the operation of welding machines and other equipment based on current draw. The module is housed in a 5-pin three-phase connector rated up to 63 A and is plugged in as an adapter between the power socket and the welding machine plug – without interfering with its controls, electronics or software. Exceeding the current draw threshold, selected with DIP switches inside the module (3.02 A, 7.02 A, 10.54 A or 14.54 A), indicates actual operation (an electric arc) rather than standby. BIOS-CT-01 has a cable that connects to an input of the BIOS-IO-01 module, which sends the information over the LAN, e.g. to the Scout MES system. One BIOS-IO-01 supports up to 4 BIOS-CT-01 modules. The module requires no additional power supply (BIOS-IO-01 is powered separately), and it can be installed by the user, without an electrician.



Technical data:

Function	current draw detection (detecting device operation)
Detection thresholds	3.02 A / 7.02 A / 10.54 A / 14.54 A – selected with DIP switches inside the module
Connector	three-phase, 5-pin, up to 63 A (socket – plug adapter)
Enclosure dimensions	237 × 104 × 74 mm
Connection to BIOS-IO-01	cable to a module input
Mounting	plug & play, between the power supply and the device; by the user, without an electrician
Power supply	no additional power supply required (BIOS-IO-01 powered separately)
Compatibility	BIOS-IO-01 (up to 4 BIOS-CT-01 units per module)
Integration	via BIOS-IO-01 and LAN, incl. Scout MES
Warranty	2 years; post-warranty service for 10 years from placing on the market

Setting the detection threshold:

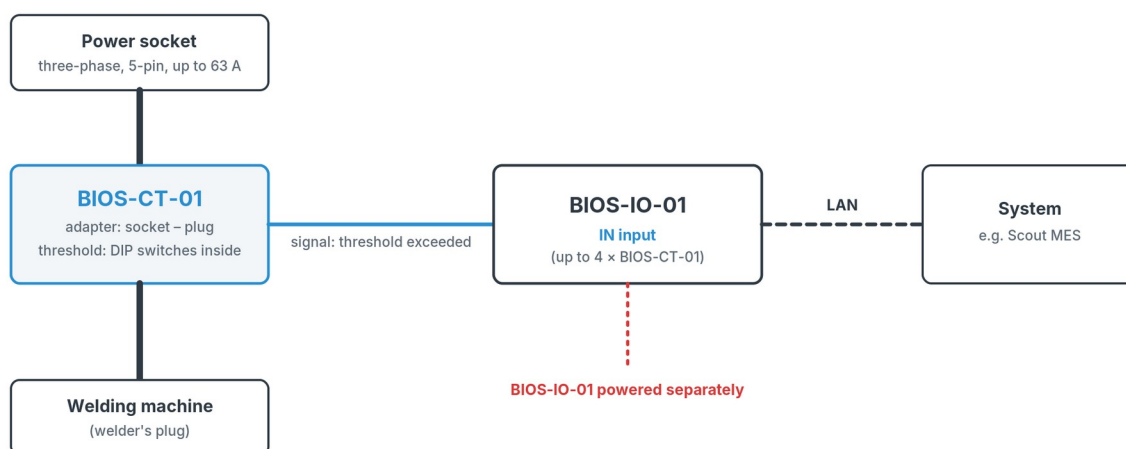
SW1.1	SW1.2	Detection threshold [A]
0 / down	0 / down	3.02
1 / up	0 / down	7.02
0 / down	1 / up	10.54
1 / up	1 / up	14.54

The threshold is selected with DIP switches SW1.1 and SW1.2 inside the module.

Example connection diagram:



Example connection diagram: BIOS-CT-01



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