MORE THAN SENSORS
AND AUTOMATION

JUMO meroTRON 104/108/116

Modular one-channel/two-channel controller with PLC function



Uniquely versatile

- Customizable device menu for user-friendly integration into a wide range of applications
- PLC function with programming via ST code including real-time clock and with direct access to operation and display
- Planning security through scalable hardware with Plug and Play
- Communication via USB, PROFINET, Ethernet, and RS485 (Modbus master/slave TCP/RTU)
- Calibration of analog inputs according to CQI-9 and AMS2750
- Large variety as well as number of analog and digital inputs and outputs



Types 703051, 703052, 703053, 703054

Brief overview

The multifunctional controller impresses with the individual design of its user interface and through its hardware equipment. This way, counting inputs, interfaces, as well as analog and digital inputs/outputs can be added as required. The controller masters even complex applications with a second control channel, with math and logic functions, and by implementing control functions via ST code.

Other advantages:

- Less time required during startup and operation due to individualization of the device menu
- No need for additional hardware due to second control channel as well as through PLC and data logger functions
- Process optimization through "Startup live recording"
- Reduction of startup and maintenance times through simple transfer of configuration and firmware updates

Technical data

Product name	**JUMO meroTRON 116**	**JUMO meroTRON 108, horizontal/upright format JUMO meroTRON 104**
Type	703051	703052, 703053, 703054
Format	48 mm × 48 mm × 95 mm	48 mm × 96 mm × 95 mm 96 mm × 48 mm × 95 mm 96 mm × 96 mm × 95 mm
Connections	Removable terminals with PUSH IN	
Controller types	Two-state controller, three-state controller, modulating controller, position controller, continuous controller	
Control channels	1 or 2	
Measurement inputs	1 user configurable analog input for RTD temperature probes, thermocouples, current 0(4) to 20 mA, voltage 0 to 10 V, resistance transmitters, resistance/potentiometer; option for up to 4 additional analog inputs; calibration of analog inputs according to CQI-9 and AMS2750 (optional)	
Display	Two-line 18 segment LCD display, display elements for switch position of the outputs as well as for manual mode, ramp function, and timer	
	–	Plain text display for menu, parameters, and process information
Outputs	2 relays (normally open contact); option for additional analog outputs (0 to 20 mA or 0 to 10 V), relays (normally open contact, changeover contact), solid state relays, logic outputs (0/14 V or 0/22 V), and open-collector outputs	
Alerts	Up to 8× limit value monitoring	
Digital inputs	2 digital inputs for potential-free contacts; option for up to 12 additional digital inputs	
Counting inputs	Option for up to 2 counting inputs (12.5 kHz)	Option for up to 4 counting inputs (12.5 kHz)
Interfaces	USB host and USB device (setup); options for RS485 (Modbus RTU master/slave), Ethernet (Modbus TCP master/slave), PROFINET device	
Special features	Individual design of operator levels; modular structure with option cards; fixed value and program controller with real-time clock; math and logic functions; data logger; Modbus master function; logic outputs (24 V) can also be used as voltage supply for two-wire transmitters; PLC function by ST code; special functionality for use in the plastics industry; service and operating hours counter; 2 timers	
Protection type	IP65	
Approvals	–	DIN EN 14597; DNV GL (only JUMO meroTRON 104)

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