

Data sheet

Process regulator with display

Universal programmable PWM (Pulse Width Modulated) process regulator with optional analogue inputs and analogue signal and relay outputs.



- Microprocessor control with PWM (Pulse Width Modulated) regulation of optional process flow.
- Optional analogue inputs for current, voltage and temperature.
- Digital display and monitoring of process progress.
- Optional analogue outputs (0/4-20 mA) as well as potential free relays for alarm outputs.
- Linearization of non-linear signals.
- Touch programming directly on the front panel.
- Possibility of password protection.
- RS-485 data communication.
- Available in both Stand-alone and OEM versions

Description:

Universal process controller with PWM (Pulse Width Modulation), e.g. temperature regulation and control of heater, flow regulation or monitoring of atmospheric control in production furnaces.

- Colour display with 6 lines for text and data.
- 3 optional analogue inputs, 0-10 V, 0/4-20 mA and 1 input for thermocouple.
- 5 general logic outputs: On/off (NPN), PWM (Pulse Width Modulation) for temperature control, regulation of proportional solenoid valve for control of e.g. flow, or other forms of regulation.
- 2 relay outputs (NPN) for optional alarm limits.
- 2 optional analogue signal outputs (0/4-20 mA).
- Cabinet for DIN rail mounting or OEM version.

Example of application:

- Process control of dosage where e.g. a constant flow is desired to be regulated and monitored, supplemented with the display of other analogue input signals, such as temperature and dew point. Programmable optional alarm outputs for high and low values and analogue current outputs 0-4/20 mA outputs.
- Process control where a constant temperature is desired regulated and monitored with alarm limit for high and low temperature, with a setting for Heating [Tset] and heating and cooling rate, supplemented by display of other analogue input signals. Programmable optional alarm outputs for high and low values, as well as analogue current outputs 0-4/20 mA outputs.
- Process management and monitoring of critical atmosphere in production furnaces, e.g. regulation of N₂, CO₂ or H₂ level, supplemented by display of other optional analogue input signals such as dew point and pressure. Optional alarm outputs for high and low values, as well as optional programmable analogue current outputs 0-4/20 mA outputs and alarms for high and low values.
- Monitoring and display of current analogue signals. Optional high and low alarm outputs values, as well as analogue current 0-4/20 mA outputs.

Technical data:

- Supply: 24 VDC
- Touch programming on the front panel of input parameters, setting for Heating [Tset], heating and cooling rate, setting for 0-4/20 mA outputs and alarm limits as well as alarm delay.
- Programming via RS-485 for setup of parameters, display text and colour as well as a linearization of non-linear signals. - Supplementary information with technical data is available at <https://in-system.dk>