



Controller Series JUMO iTRON



*A perfect match to
your requirements!*

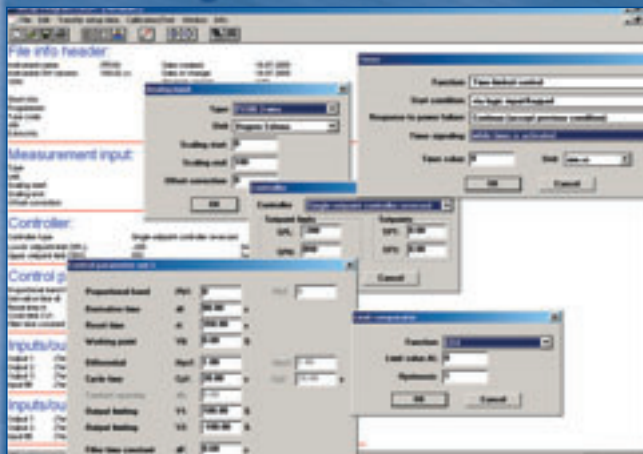
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General functionality

- compact controller series for universal use
- user-friendly operation throughout clear, luminous display
- programmable universal measurement input
- well-proven control algorithms
- temperature display in °C or °F
- large selection available from stock
- UL /CUL and CSA approval
- programmable from the keys or through the setup program
- integrated timer function
- customized configuration possible
- simple mounting, connection by screw terminal

Trilingual setup program for configuring and archiving from a PC



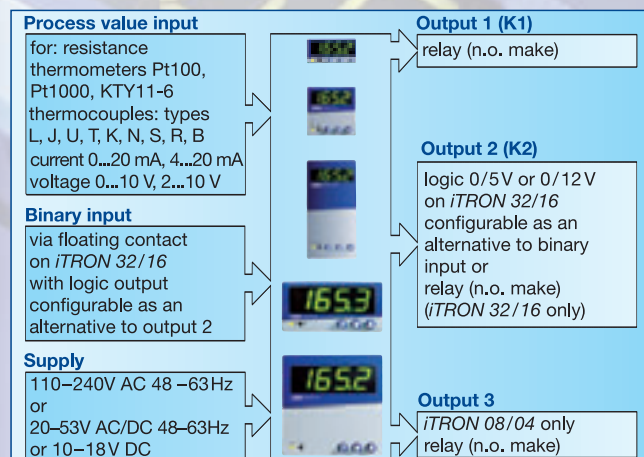
JUMO iTRON 04/08/16/32

Compact universal controllers



- programmable 2-state or 3-state controllers
- universal measurement input for current, voltage, resistance or thermocouples
- five models with a display for process value/setpoint or timer value:
 - 7-segment display, 4-digit (green)
 - display span -1999 to +9999 digit
 - unit in °C or °F
 - decimal place: one, two, none
 - two LEDs (yellow) for the outputs 1 and 2, for status indication
- limit comparator with eight functions for alarm or step switching
- setpoint changeover via binary input or timer
- binary input for key/level inhibit, ramp stop, timer control or setpoint changeover
- IP 66 front protection
- with ramp/timer function and autotuning facility
- bezel sizes:
 - 96 mm x 96 mm x 68.5 mm, *iTRON 04* 1
 - 48 mm x 24 mm x 100 mm, *iTRON 32* 2
 - 96 mm x 48 mm x 68.5 mm, *iTRON 08* 3
 - 48 mm x 96 mm x 68.5 mm, *iTRON 08* 4
 - 48 mm x 48 mm x 100 mm, *iTRON 16* 5

Block structure



al controllers, creative design

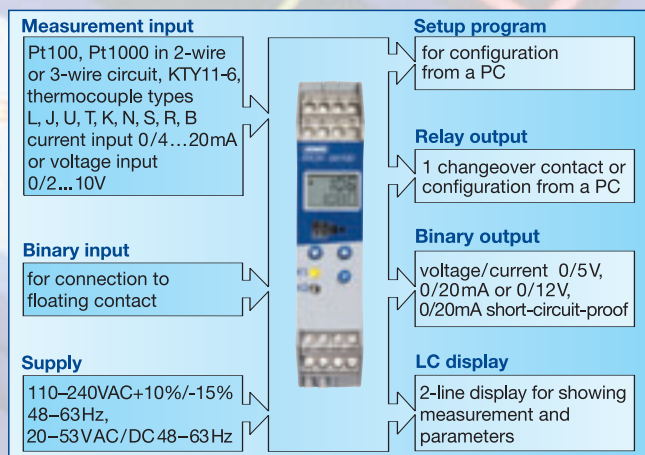
JUMO iTRON DR 100

Universal controllers for DIN rail



- can be used as a 2-state controller with a limit comparator, or for use as a 3-state controller
- universal measurement input for current, voltage, resistance or thermocouples
- 2-line alphanumeric display, indication of process value, setpoint, timer value or menu prompting
- compact style with built-in power supply unit
- side-by-side mounting, to save installation space
- high-performance 5A/250VAC relay outputs and logic output
- with ramp/timer function and autotuning facility
- with proven self-tuning facility
- choice of one changeover or two make contacts 3A/230VAC
- one logic output as standard
- setpoint changeover via binary input or timer
- binary input for key/level inhibit, ramp stop, timer control or setpoint changeover

Block structure



JUMO iTRON 04 B

Compact temperature controllers



- bezel size: 96 mm x 96 mm
- brilliant, luminous LED display
- easy-to-clean front foil, IP 65 rating
- suitable for ambient temperatures up to 60°C
- contact rating of the relay outputs: 5A at 230V
- configurable parameter loop (see picture below)

Type 702050/2... ①

- 2-state controller with display of process value and setpoint
- two keys for adjusting the setpoint or configuration
- two outputs for controller and limit comparator

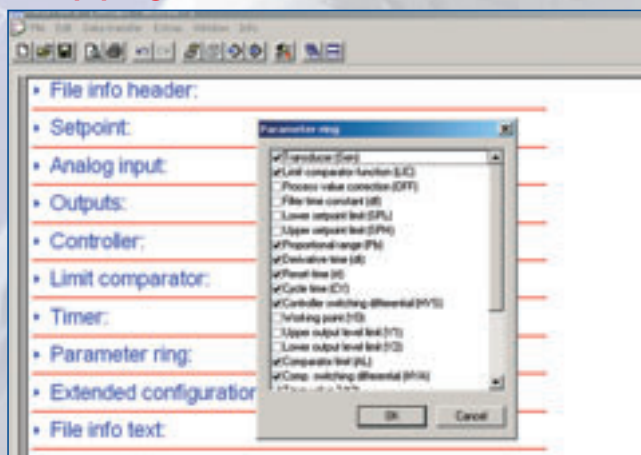
Type 702050/1... ②

- 2-state controller with process value display
- additional display for an integrated, independent timer function
- three keys for editing the setpoint and time, and for starting the timer
- three outputs for controller, timer and limit comparator

Type 702050/0... ③

- 2-state controller with process value display
- two keys for simple operation
- one relay output with 5A contact rating at 230V/50Hz

Setup program



High-profile products and services

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Analytical Measurement

- pH/redox: sensors and transmitters/controllers
- Conductivity instrumentation: conductive and inductive
- Dissolved oxygen measurement
- Chlorine, chlorine dioxide, ozone, hydrogen peroxide and peracetic acid instrumentation
- Fittings and accessories



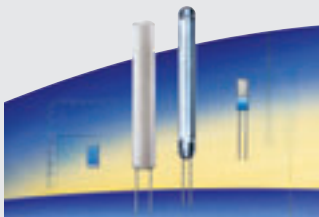
Pressure measurement technology

- Pressure transmitters
- Level probes
- Pressure gauge
- Pressure switch
- Pressure cells
- Chemical seals and accessories



Transducers for Temperature and Humidity

- Thermocouples
- Resistance thermometers
- Ex temperature probes (ATEX)
- Wireless temperature probe
- Humidity measuring instruments
- DKD (German Calibration Service) laboratory
- Nationally accredited testing station for heat



Platinum temperature sensors

in wirewound technology:

- Glass
- Glass with glass extension
- Ceramic
- Foil

in thin-film technology:

- Chip with connecting wires
- Chip in SMD style on epoxy board
- Chip with terminal clamps
- Chip in cylindrical style
- Chip in SMD style



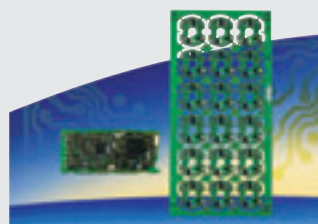
Controllers, Power units, System/Recording technology

- Process controls and programmers
- Automation software
- Electronic thermostats/microstats
- Safety temperature monitor/limiter
- Digital indicators
- Process controller
- Recording instruments
- Temperature transmitters
- Thyristor power switches/power units
- Software and accessories



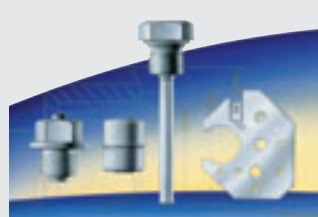
Thermostats and Dial Thermometers

- Panel and surface mounting thermostats in TR, TW, TB, STW and STB versions
- Room thermostats
- Warm-air thermostats
- Ex thermostats (ATEX)
- Electronic thermostats
- Dial thermometers as indicating and control instruments
- Bimetallic temperature switches
- Electronic temperature indicators with transmitter



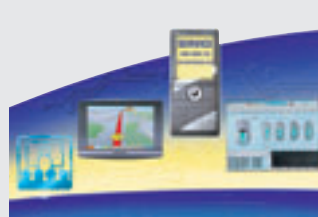
Electronic modules

- CAD layouting
- Component procurement
- THT and SMD placing
- AOI-testing
- In-circuit testing
- Functional testing
- Run-In
- Final assembly
- Final instrument test



Metalworking

- Stamping and forming systems
- Tool manufacture
- Flexible sheet metal working
- Welding, jointing and assembly systems
- Surface engineering
- Machining
- Float
- Materials laboratory



Service

- Planning and project design for automation solutions
- German Calibration Service (DKD) for temperature
- Support during commissioning and optimization
- Worldwide service network
- Technical support line
- Seminars and workshops
- Fieldbus center
- Technical literature
- JUMO home page: www.jumo.net



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