



Controller Series JUMO iTRON



*A perfect match to
your requirements!*

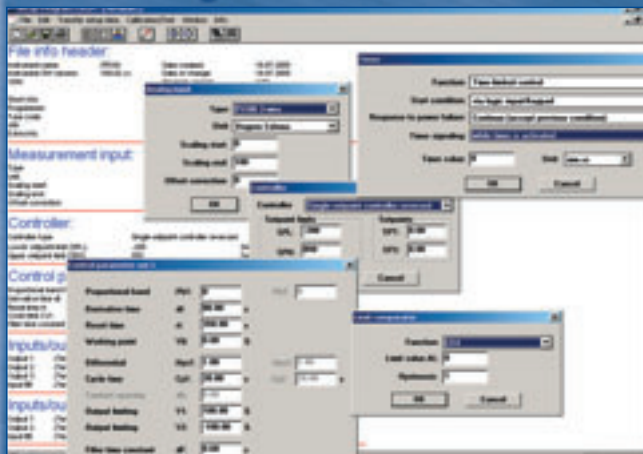
JUMO GmbH & Co. KG
Moritz-Juchheim-Straße 1
36039 Fulda
Germany

Phone: +49 661 6003-0
Fax: +49 661 6003-607
Internet: www.jumo.net

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



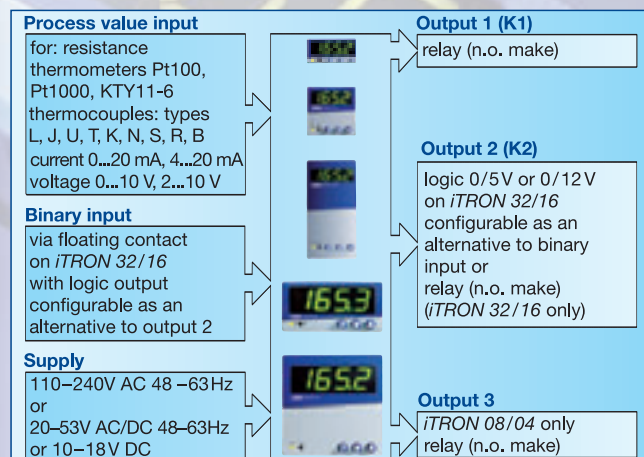
JUMO iTRON 04/08/16/32

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

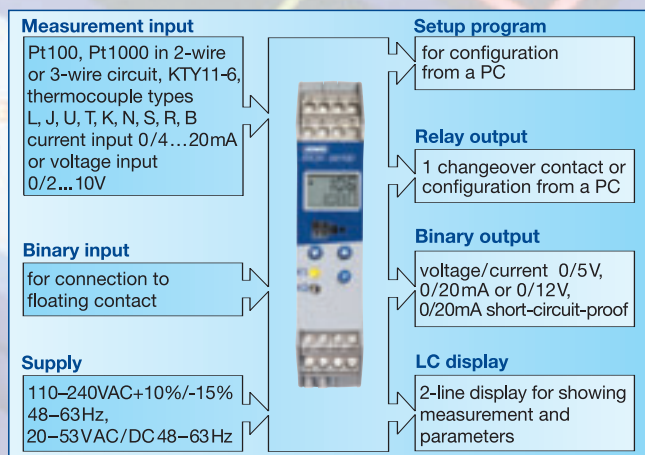
JUMO iTRON DR 100

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

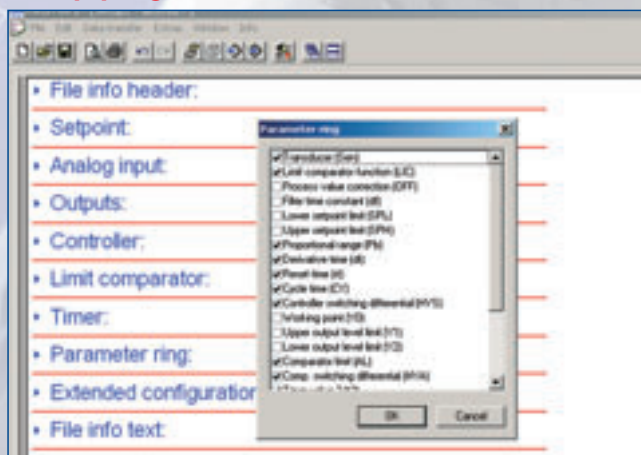
Type 702050/1... ②

- 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

e-mail: mail@jumo.net

Phone: +49 661 6003-0



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



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



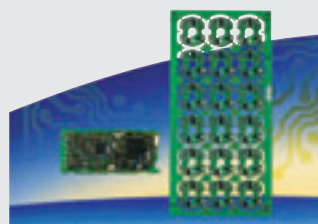
Thermostats and Dial Thermometers

- 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



Pressure measurement technology

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



Electronic modules

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



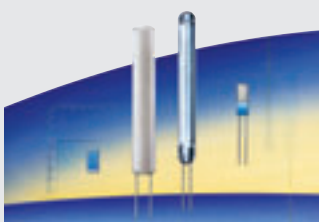
Transducers for Temperature and Humidity

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



Metalworking

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



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



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



Stammhaus • Head office •
Maison-mère Fulda
JUMO GmbH & Co. KG
☎ +49 661 6003-0
mail@jumo.net
www.jumo.net

Darmstadt
☎ +49 6151 3508-0
<http://darmstadt.jumo.info>

Essen
☎ +49 201 86627-0
<http://essen.jumo.info>

Hannover
☎ +49 5723 9432-0
<http://hannover.jumo.info>

Ingolstadt
☎ +49 841 37934-0
<http://ingolstadt.jumo.info>

Leipzig
☎ +49 341 4900810
<http://leipzig.jumo.info>

Stuttgart
☎ +49 7021 95091-0
<http://stuttgart.jumo.info>

Belgien • Belgium • Belgique
JUMO Automation
S.P.R.L./P.G.M.B.H./B.V.B.A.
☎ +32 87 59 53 00
info@jumo.be
www.jumo.be

Bulgarien • Bulgaria • Bulgaria
JUMO Izmervatelni uredi i Regulatori
☎ +359 2 973 39 88
jumobg@centrum-group.com

China • People's Republic of China • China
JUMO Automation Dalian Co. Ltd.
☎ +86 416 19 46 66
info.dk@jumo.net
www.veto.cl

Dänemark • Denmark • Danemark
JUMO Måle- og
Reguleringsteknik A/S
☎ +45 46 19 46 66
info.dk@jumo.net
www.jumo.dk

England • United Kingdom • Angleterre
JUMO Instrument Co. Ltd.
☎ +44 1279 635533
sales@jumo.co.uk
www.jumo.co.uk

Frankreich • France • France
JUMO Régulation SAS
☎ +33 3 87 37 53 00
info@jumo.net
www.jumo.fr

Italien • Italy • Italia
JUMO Italia SRL
☎ +39 02 24 13 55 1
info@jumo.it
www.jumo.it

Kroatien • Croatia • Croatie
JUMO
Mess- u. Regelgeräte Ges.m.b.H.
☎ +385 42 30 30 10
info@jumo.hr
www.jumo.hr

Niederlande • Netherlands • Pays-Bas
JUMO Meet- en Regeltechniek B.V.
☎ +31 294 49 14 91
info@jumo.nl
www.jumo.nl

Norwegen • Norway • Norvège
JUMO AS
☎ +47 67 97 37 10
info.no@jumo.net
www.jumo.no

Österreich • Austria • Autriche
JUMO Mess- und Regelgeräte
Ges.m.b.H.
☎ +43 1 6 10 61 0
info@jumo.at
www.jumo.at

Polen • Poland • Pologne
JUMO Sp.z.o.o.
☎ +48 71 3 39 82 39
biuro@jumo.com.pl
www.jumo.com.pl

Rumänien • Romania • Roumanie
S.C. JUMO Romania S.R.L.
☎ +402 573 48 499
info@jumo.ro
www.jumo.ro

Russland • Russia • Russie
JUMO GmbH
☎ +7 495 961 32 44
jumo@jumo.ru
www.jumo.ru

Saudi Arabien • Saudi Arabia • Arabie Saoudite
JUMO GmbH & Co. KG
☎ +971 4 347 2936
info@jumo.ae
www.jumo.ae

Schweden • Sweden • Suède
JUMO Mät- och Regelteknik AB
☎ +46 42 38 62 80
info@jumo.se
www.jumo.se

Schweiz • Switzerland • Suisse
JUMO Mess- und Regeltechnik AG
☎ +41 44 928 24 44
info@jumo.ch
www.jumo.ch

Serbien • Montenegro • Serbien / Montenegro • République de Monténégro
JUMO Mereni i regulacioni uredjaji
☎ +381 11 285 2279
sipiljan@eunet.yu

Slowakische Republik • Slovakian Republic • Slovaquie
JUMO Slovensko s.r.o.
☎ +421 244 87 16 76
jumo@stonline.sk
www.jumo.sk

Slowenien • Slovenia • Slovénie
JUMO merilni in regulacijski aparati
☎ +386 2 421 51 83
info@jumo.si
www.jumo.si

Spanien • Spain • Espagne
JUMO Control S.A.
☎ +34 91 8863 153
g.jentsch@jumo.es
www.jumo.es

Tschechische Republik • Czech Republic • République Tchèque
JUMO Mereni a regulace s.r.o.
☎ +420 541 321 113
info@jumo.cz
www.jumo.cz

Ungarn • Hungary • Hongrie
JUMO HUNGARIA Kft.
☎ +36 1 467 08 35
jumobudapest@jumo.hu
www.jumo.hu

USA • USA • Etats-Unis
JUMO Process Control, Inc.
☎ +1 315-697-5866
info@jumo.us
www.JUMO.us

Vereinigte Arabische Emirate • United Arab Emirates • Les Emirats Arabes Unis
JUMO GmbH & Co. KG
Middle East Office
☎ +971 4 347 2936
jumomiddleeast@eim.a

Weitere Standorte unter www.jumo.net
For further international locations please visit www.jumo.net
Autres sites dans le monde sous www.jumo.net