

Digital Indicators



optimized benefit / cost ratio



Shown at actual size

JUMO di eco digital indicator

- limit monitoring with 10A (changeover) relay
- programmable delayed relay switching action
- programmable switch-on delay after power-on
- simple operation from three buttons
- electrical connection by screw terminals
- protection: front IP65/rear IP20
- UL and CUL approval
- 3-digit back-lit LC display with 13mm digit height and special symbols for °C, °F

Designation	di eco
Type	70 1540 / ...
Dimensions	panel-mounting housing to DIN 43 700, bezel size 76 mm x 36 mm, depth behind panel 56 mm
Measurement inputs	Measurement group 1: Pt100, Pt1000 or KTY2X-6 in 2-wire circuit, configurable Measurement group 2: Fe-CuNi "J", "L" or NiCr-Ni "K" thermocouples, configurable Measurement group 3: Current 0(4) – 20 mA Measurement group 4: Voltage 0 – 10 V
Accuracy	from 0,1 % of range
Display	LCD, 3-digit, back-lit, for displaying temperature and parameters
Display range	–200 to +999 °C/°F
Supply	230V AC + 10/–15 %, 48 – 63 HZ 115V AC + 10/–15 %, 48 – 63 HZ 12 – 24V DC + 15/–15 % 24V DC + 15/–15 %, 48 – 63 HZ
Outputs	floating changeover relay 250V AC/10A resistive load
Further information	Data Sheet 70.1540

versatile + accurate



Shown at actual size

Designation	di 08 / di 32
Type	70 1530 / ...
Dimensions	panel-mounting housing to DIN IEC 61 554, bezel size 96 mm x 48 mm / 48 mm x 24 mm
Measurement inputs	resistance thermometer Pt 100, Pt 1000, KTY11-6 thermocouples type L, J, U, T, K, E, N, S, R, B, C, D current 0 – 20 mA, 4 – 20 mA voltage 0 – 10 V, 2 – 10 V
Logic input	floating contact
Accuracy	from 0.1 % of range
Display	LED, 7-segment, 4-digit digit height 20/10 mm
Display range	–1999 to +9999 digit/°C/°F
Supply	20 – 53 V AC/DC, 48 – 63 Hz 110 – 240 V AC, 48 – 63 Hz
Outputs	1 relays (make contact) 1 logic output 5 V / 20 mA
Further information	Data Sheet 70.1530

JUMO di 08 / di 32 digital indicator

- configurable inputs and outputs
- structured operating and programming layout
- customized linearization
- Min/Max/Hold function via external contact
- easy-to-read display thanks to large LED (20/10 mm)
- IP 66 protection
- mounting depth (69/100 mm)
- levels can be inhibited to prevent unauthorized alterations
- configurable switch-on delay of relays
- two relay outputs and logic output 0/5V



Shown at actual size

Designation	di 308
Type	701550/...
Dimensions	panel-mounting housing to DIN IEC 61544, bezel size 96mm x 48mm
Measurement input	max. two measurement input for resistance thermometer Pt100, Pt500, Pt1000, KTY11-6 thermocouples type L, J, U, T, K, E, N, S, R, B, C, D voltage 0(2) to 10V, 0 to 1V current 0(4) to 20mA
Accuracy	from 0.05 % of range
Display	LCD with background lighting, upper display 7-segment, 5 digits, lower display 16-segment, 8 digits
Display range	–19999 to +99999 Digit / °C / °F
Supply	AC 110 – 240V 48 – 63Hz AC/DC 20 – 30V 48 – 63Hz
Outputs	2 relays (make contacts) 2 logic outputs 0/12V voltage outputs 15V/50mA
Further information	Data Sheet 70.1550

JUMO di 308 digital indicator

- Up to 2 universally configurable analog inputs
- Alarm message text with color change (red/green) as running text band
- 3 expansion slots for analog output, PROFIBUS-DP, relays etc.
- Math and logic module
- 4 limit comparators
- Fast and user-friendly configuration through the setup program
- Setup interface (standard)
- RS422/485 interface
- PROFIBUS-DP interface

easy-to-handle + portable



Shown reduced

Designation	TDA-300	TDA-3000
Type	702540	702541
Dimensions	152 mm x 57 mm x 46 mm	
Transducer	Pt100, NiCr-Ni "K", FeCu-Ni "J", CuCu-Ni "T"	
Accuracy of transducer Pt 100	DIN EN 60751 Class A	
Accuracy of transducer NiCr-Ni "K"	DIN EN 60584 Class 2	
Range Pt 100	-200 to +850 °C	
Range NiCr-Ni "K"	-200 to +1372 °C	
Accuracy	+/-0.1 % +1 digit or +/-0.3 °C	
Data logger	99 measurements	9999 measurements
Tag numbers (meas. point designation)	5 (11 characters)	99 (11 characters)
Users	–	99 (11 characters)
Interface	–	USB, type Mini-B
Protection	IP 67	IP 54
Weight	150 g with battery	
Ambient temperature	-20 to +50 °C	
Climatic conditions	5 to 95 % rel. humidity	
Supply	1 x Mignon (R6/AA) (400 hours service life)	
Further information	Data Sheet 70.2540	

JUMO TDA-300/TDA-3000 Handheld thermometer with data logger

- a wide variety of Pt100 and NiCr-Ni type "K" probes are available
- user language can be switched between: English, French and German
- DKD certificate available on request (extra charge)
- data logger for 9999 measurements
- data recording: manual or automatic (1-3600 sec)
- 99 users can be stored
- 99 TAG numbers are possible
- USB interface
- data visualization via spreadsheet program, e.g. Excel
- P67 enclosure protection as per EN 60529
- carrying case for instrument, probes and accessories

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



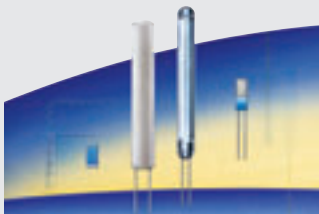
Pressure measurement technology

- 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



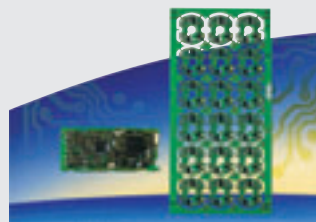
Controllers, Power units, System/Recording technology

- 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



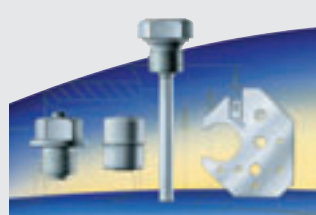
Thermostats and Dial Thermometers

- 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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