



Analytical Measurement

JUMO CTI-750 with stainless steel housing

Inductive Conductivity/Concentration and Temperature Transmitter with switch contacts



Highlights

- Activation of up to four measuring ranges
 - Activation of up to four temperature coefficients
 - Concentration measurement of
 - caustic soda NaOH
 - nitric acid HNO₃
 - a freely definable curve (through the setup program)
 - Temperature sensor with a fast response
 - Temperature compensation
 - linear
 - natural water
 - integrated characteristic (learning function)
 - Operation
 - through keypad and plain text display
 - through setup program
 - Learning function for the temperature coefficients
- With a setup program
 - easy-to-use programming option
 - plant documentation
 - Large viewing window (plastic) facilitates good readability of the plain text display and the status LEDs
 - Easy access to the operating elements and the setup connector when the housing is opened (swiveling cover)
 - Available as a combined instrument (combined sensor and transmitter) or as a remote version (sensor with permanently attached cable and a separate transmitter)
 - With a separate transmitter: mounting on walls, pipes or masts is possible
 - Available for all the usual process connections: threaded, MK, SMS, clamp, VARIVENT® etc.

Technical data

Input	supply voltage 19 – 31V DC or 24V AC ±10 %
Conductivity/ concentration output	0(4) – 20 mA, 0(2) – 10 V, 20 – 0(4) mA, 10 – 0(2) V
Temperature output	0(4) – 20 mA, 0(2) – 10 V, 20 – 0(4) mA, 10 – 0(2) V
Switching output	2 floating contacts
Housing material	stainless steel 1.4301
Enclosure protection for transmitter	IP68 with pressure compensation element against condensation
Electrical connection	choice of M12 connector or cable gland
Measuring cell material	PEEK® or PVDF
Display	can be rotated in 90° steps, display orientation according to mounting position
Operating language	German, English, French, Spanish, Polish etc.
Measuring cell	inductive conductivity cell

Possible areas of application:

Food industry, dairies, breweries, beverage industry, bottle-cleaning plant, CIP/SIP engineering etc.

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



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



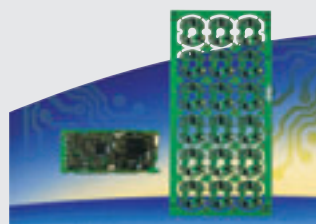
Thermostats and Dial Thermometers

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



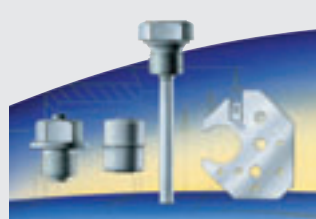
Electronic modules

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



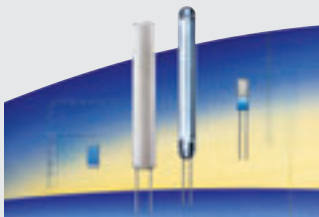
Transducers for Temperature and Humidity

- 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



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