

Humidity Transducers

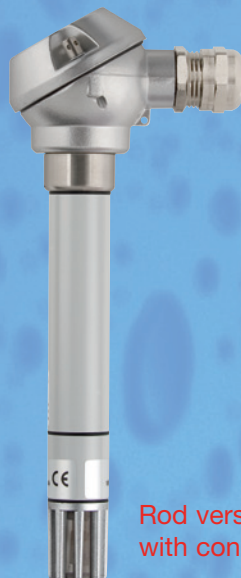


Hygro and Hygrothermo Transducers (capacitive) for climatic applications

- to measure relative humidity and temperature
- for versatile climatic applications and ventilation
- for indoor and air duct mounting
- compact rod models with connection cable or J-shaped connection head
- with current and voltage outputs as well as passive Pt100 temperature output
- with fast-response capacitive humidity sensor



Indoor version



Rod version
with connection head



Rod version
with connection



Duct version

further information:
Data Sheet 90.7020

Hygro and hygrothermal transducers (hygrometric)

- for measuring relative humidity and temperature
- for mounting indoors, outdoors, and in air ducts
- with resistance, current or voltage outputs
- for permanent use in the high-humidity range up to 100% RH (duct version)
- no power supply necessary for passive instruments
- sensing element does not need any maintenance in clean air (no regeneration necessary)



Indoor version



Duct version

further information:
Data Sheet 90.7031

Hygro and hygrothermal transducers (capacitive) for climate monitoring

- for measuring relative humidity in air and temperature
- for building automation, storage rooms, climate and ventilation control
- as indoor, wall and duct versions
- special miniature rod version for OEM applications
- with current or voltage outputs as well as passive temperature output



Indoor version

further information:
Data Sheet 90.7021



Wall version



Duct version

Rod version



Hygrostats (capacitive) for HVAC applications

- for on-off control of relative humidity
- for domestic and office buildings
- for the control of ventilating systems
- in wall and duct versions
- output relay with changeover contact



Wall version



Duct version

further information:
Data Sheet 90.7022

Humidity and temperature transducers for industrial applications

- measurement within the entire range from 0 to 100 % RH
- temperature-resistant up to 180 °C (depending on probe type)
- withstands pressures up to 100 bar (depending on probe type)
- rugged metal housing, IP 65 protection
- outstanding accuracy and stability
- graphical trend display and measurement history of the past year
- retraceability to NIST
- options: calculation and output of dew point, absolute humidity, mixing ratio, wet bulb temperature, enthalpy and water vapor pressure



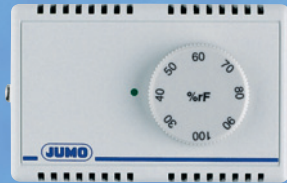
further information:
Data Sheet 90.7023



Ex version with PTB approval
as per CENELEC standard
(94/9/EC, ATEX)

Hygrostats (hygrometric)

- for on-off control of relative humidity
- in air ducts, climate-control cabinets, stores and cold rooms
- for controlling humidifiers and de-humidifiers
- for duct, wall and C-rail mounting



Compact version



Indoor version



Duct version

further information:
Data Sheet 90.7032

Capacitive hydrothermal transducers with interchangeable probes

- for measuring relative humidity and temperature
- measurement over the entire humidity range from 0 to 100% rH
- for operating temperatures from -40 to +80°C
- intelligent interchangeable probes are easy to exchange without readjusting the device electronics
- with separate measurement probes option for humidity and temperature
- 2m, 5m or 10m long adapter cable for probe extension
- special rugged metal housing, can be used in clean rooms
- integrated LC Display (optional)
- with standardized current or voltage outputs
- for versatile applications in the pharmaceutical industry and for greenhouse, clean room, storage and coldstore applications



further information:
Data Sheet 90.7027



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



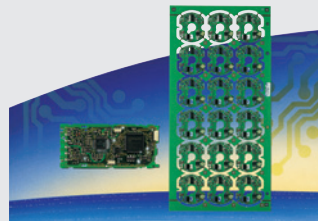
Thermostats and Dial Thermometers

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



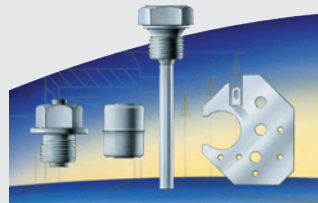
Electronic modules

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



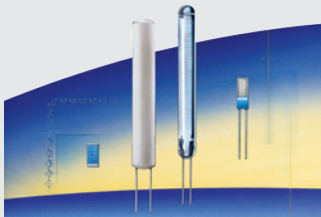
Transducers for Temperature and Humidity

- 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



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