

SENSING SOLUTIONS IN PROCESS AND CONTROL

Featuring our latest products in



Temperature



Pressure



Flow



Strain



Data Acquisition

sales@omega.co.uk
www.omega.co.uk

Ω OMEGA™
SENSING INCREDIBLE THINGS

3	Manufacturing and Calibration Capability
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Precision Manufacturing

Our commitment to maintaining a leading edge through state-of-the-art manufacturing keeps OMEGA firmly at the forefront of technology. OMEGA's Development and Engineering Center (ODEC), is home to OMEGA's design and engineering laboratories. All product designs are tested and perfected here prior to release. The testing that takes place here assures that you receive the best products for your applications. Once an OMEGA product design is perfected and tested, stock production takes place at our Manchester manufacturing facility. This site houses OMEGA's advanced OMEGACLAD thermocouple wire production along with a host of other highly specialised and proprietary processes, ensuring all OMEGA products are of the highest quality.

Custom Engineering

Omega Engineering proudly offers the most sophisticated and extensive Custom Engineering capabilities in the process measurement and control industry. Whether you need a simple modification of a standard product or complete customised system engineering, OMEGA can accommodate your special request.

Calibration

OMEGA is constantly striving to find new ways to increase the level of service available to our customers. To this end, OMEGA continues to expand the range of calibration services available, offering a broad selection of standards for use in calibrating temperature, infrared humidity, pressure, flow, and force products. By maintaining these standards in-house, we can ensure fast turnaround time on calibrations.

All calibrations are performed by our technicians. Contact OMEGA's Customer Service Department (0161 777 2225) to discuss your specific calibration requirements.

- Temperature, Infrared
- Humidity
- Pressure, Strain, Force
- Flow
- Five Different Calibration Levels
- ISO9001 Corporate Quality
- ISO10012-1, ANSI/NCSL Z540-1-1994
- Global Calibration Services Available
- Loaner Units Available



OM-DAQXL Series

Touch Screen 8 and 16 Channel Universal Input Data Loggers

Measures Voltage, Current, Thermocouples, RTDs, Thermistors, Strain Gauge, Frequency and Pulse

- Ethernet and WiFi Models Available
- 7" Touch Screen TFT Display
- Cloud-Ready Through Omega Gateway
- Fast Sampling Rate
- Rechargeable Lithium-Ion Battery



Comes with Protective Casing



www.omega.co.uk/OM-DAQXL

HHC200-Series

Handheld Environmental Meters

Temperature, Pressure, Air Flow, Light and non-Contact RPM Measurement

- HHC201 Dual Thermocouple Thermometer
- Functions: Hold/Min/Max/Max-Min/AVG/REL
- Differential pressures from 0 to 40 inH2O
- Measures air flow, air temperature, and humidity and computes Dew Point, wet bulb, and Wind Chill values
- Measure illumination in either lux or ft-candles
- Non-contact RPM meter

7 Models available



Infrared

Light

RPM



Hygro
Anemometer

Differential
Manometer

Absolute
Pressure



HHC201 Thermocouple Meter

All Models
Include Slip-Off
Hard Cover
Shell.

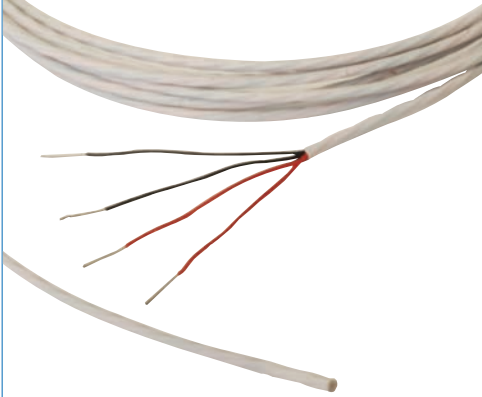


www.omega.co.uk/HHC200-series

Temperature

HSRTD

Hermetically Sealed RTD Sensors



- Hermetically Sealed RTD Sensors, IP68 Seal-Welded Tip
- Dielectric Strength Type Tested to 3kV AC RMS
- Easily Cleaned & Sterilised

www.omega.co.uk/HSRTD

SA2C_SA2F-RTD

Water Resistant Pt100 Surface Temperature Sensor

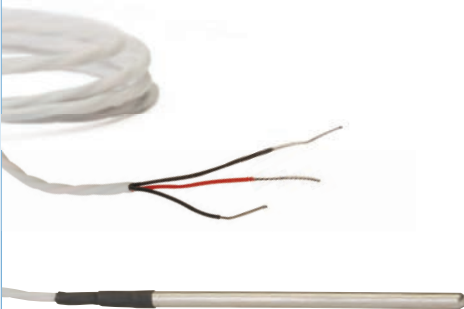


- Moisture Protection to IP67 Standard
- Temperature Range: -30 to 150°C
- Precision 100Ω Class A Platinum Element

www.omega.co.uk/SA2C-RTD-IP67

PR-10

PT100 Probes with Heat-Shrink Transition from Sheath to Lead



- PT100 Probes with BS EN60751 Class A Elements
- 3 Wire Configuration
- 150, 300, 450 and 500mm Probe Lengths Standard

www.omega.co.uk/PR-10

PR-24

RTD Temperature Sensors With Micro-DIN Connectors



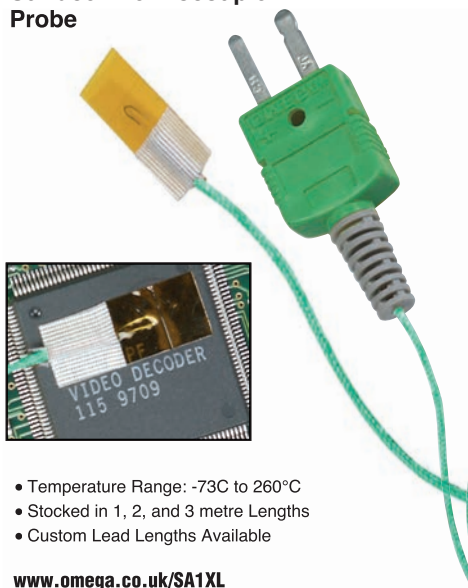
- IP65 Rated
- 316 Stainless Steel
- Pt100 and Pt1000 Options Available

www.omega.co.uk/PR-24

Temperature

SA1XL Series

Surface Thermocouple Probe



- Temperature Range: -73°C to 260°C
- Stocked in 1, 2, and 3 metre Lengths
- Custom Lead Lengths Available

www.omega.co.uk/SA1XL

KMTSS

Fine-Diameter Mineral Insulated Thermocouples

- 0.25 to 1.0 mm Fine Diameter
- 150 mm and 300 mm Lengths in Stock
- 1 m PFA-Coated Lead Wires Standard

www.omega.co.uk/TJMINI_025-075MM_IEC



TCL Calibrators

Dry Block Temperature Calibrators with Options for Infrared, Surface and Micro-Bath



- Multi-function Calibrator: Dry Bath, Micro Bath, Infrared Blackbody, and Surface Temperature
- Dry Block Calibrator: TCL-650S-D, Ambient to 650°C
- Micro Bath Calibrator: TCL-M165S-B, -35 to 165°C

www.omega.co.uk/TCL

DP20

1/8 DIN Universal Panel Meter



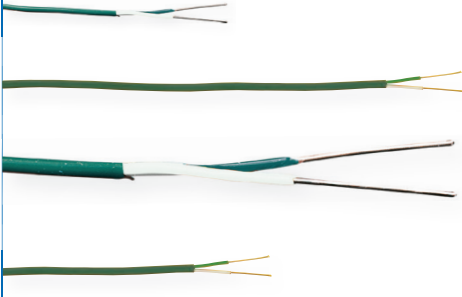
- Automatic, Power Saving Eco Mode
- Configure a Fixed Number of Counts
- 5 Levels of Brightness Intensity

www.omega.co.uk/DP20

Temperature

XC_K_TC_WIRE

K Type Thermocouple Cable



- Ideal For Making Thermocouples
- In Stock - Available for Immediate Shipment
- Choice of Insulation, Wire Diameter & Length

www.omega.co.uk/XC_K_TC_WIRE

TX-M12

Rugged, IP67 Temperature Transmitters



- Thermocouple and RTD Models Available
- Direct Connect to M12 Probes Allow Simple Replacement

Thermocouple:
www.omega.co.uk/TX-M12-TC

RTD:
www.omega.co.uk/TX-M12-RTD

CNPT Series

PLATINUM[®] Series Temperature Controllers



- Worlds Most Powerful PID Controller
- 99 Ramp & Soak Profiles of Up to 16 Steps
- Remote Setpoint

www.omega.co.uk/CNPT_Series

HH804

High Accuracy RTD Pt100 Input Thermometers



- USB or Wireless Data Transmission Options
- 100 Ohm Platinum RTD Input
- High 0.05% Reading Accuracy

www.omega.co.uk/HH804_805

Temperature

OS768-LS

Dual Laser Infrared Thermometer



- Wide Measurement Range: Infrared Up to 1800°C
- Dual Laser Points for the Target Spot Size
- Hi/Lo Temperature Audible Alarm

www.omega.co.uk/OS768-LS

OSXL-TG165

Infrared Temperature Camera



- Dual Laser Sighting
- Removable Micro SD Card
- Mini USB Port for Downloading Images

www.omega.co.uk/OSXL-TG165

OS-MINIHUB

Miniature Infrared Temperature Monitoring System RS485/Modbus

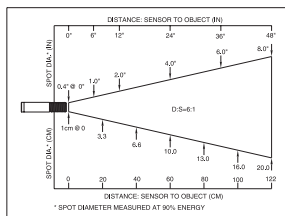


- Touch Screen Display Optional for Configuration, Display, Alarms and Data Logging
- Analogue and Alarm Relay Outputs

www.omega.co.uk/OS-MINIHUB

OS136 Series

Miniature Non-Contact Infrared Temperature Sensor & Transmitter



- Temperature Range: -73°C to 260°C
- Stocked in 1, 2, and 3 metre Lengths
- Custom Lead Lengths Available

www.omega.co.uk/OS136



Pressure

PX274

Differential Pressure Transmitter



- Ranges from 0.25 (± 0.125) to 75 (± 37.5) mbar
- Rugged IP65 Enclosure
- 6 Field Selectable Ranges

www.omega.co.uk/PX274

PXM309 VAC

Vacuum & Compound Pressure Transmitters



- Vacuum and Compound Gauge
- High Static Accuracy, $\pm 0.25\%$ FS BSL
- -40 to $+85^\circ\text{C}$ Operating Temperature

www.omega.co.uk/PXM309-VAC

HHP360

Digital Barometer and Precision Absolute Manometer



- Very High 0.015% Accuracy
- Absolute & Barometric Pressure
- Altitude in Metres or Feet

www.omega.co.uk/HHP360

PX509HL

Wet/Wet Differential Pressure Transducer



- High 0.08% Accuracy
- Low Differential Pressure
- Bidirectional or Unidirectional Outputs

www.omega.co.uk/PX509HL

Pressure

PXM309

General Purpose Pressure Sensor



- 0 to 10 Vdc & 4 to 20 mA Outputs
- Micro DIN, M12, or Cable Outputs
- All Ranges In Stock

www.omega.co.uk/PXM309

DPG8001

Digital Pressure Gauge



- 0.25% Full Scale Terminal Point Accuracy
- 5 Digit LCD Display with Large 12 mm Digits
- 20 Segment Bar Graph Display

www.omega.co.uk/DPG8001

PXM4200-i

High Temperature Transducer with Optional Display



- High Operating Temperature up to 125 °C
- Pressure Ranges from 1 bar Vacuum to 0 to 1500 bar
- PM1000 Digital Display Available

www.omega.co.uk/PXM4200-I

PXM409-USBH

USB Output Pressure Transducer



- Up to 1000 Readings/Second
- Models for Gauge, Absolute, Vacuum, Compound ($\pm$), Differential and Barometric Pressures
- Free Software for Real-Time Display & Logging

www.omega.co.uk/PXM409-USBH

LCMWD

Load Washers for Compression Measurement

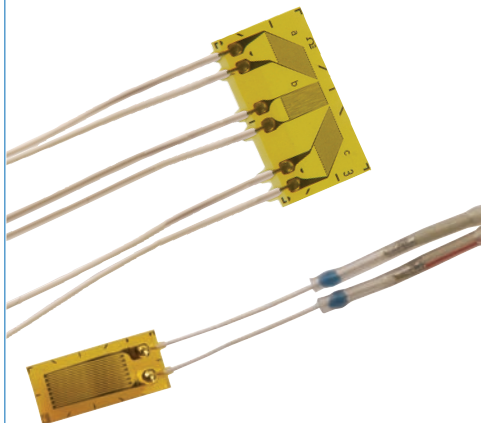


- 0-1kN to 0-200 kN
- Compact Design
- Spherical Washers Included

www.omega.co.uk/LCMWD

KFH

Pre-Wired Strain Gauges



- 2 or 3 Wire Termination
- No Soldering at the Measuring Point
- Linear Gauges, 0.3 mm to 20 mm Grids

www.omega.co.uk/KFH

DP25B_S

Process and Strain Meter & Controller



- 4-Digit Three Colour Display
- 1/8 DIN panel mount
- Built-In Excitation

www.omega.co.uk/DP25B_S

TXDIN1600S

Load Cell and Strain Gauge Amplifier/Transmitter



- Remote Tare Input
- 0-20 mA, 4-20 mA, 0-10 V ± 10 V Outputs
- Up to 80 Samples/Sec

www.omega.co.uk/TXDIN1600S

LCMKD

Miniature Button Style Load Cell



- From 9.6 mm dia and only 3 mm high
- 5-Point Calibration Certificate Included
- All Stainless Steel

www.omega.co.uk/LCMKD

LCM201

Subminiature Compression & Tension Load Cells

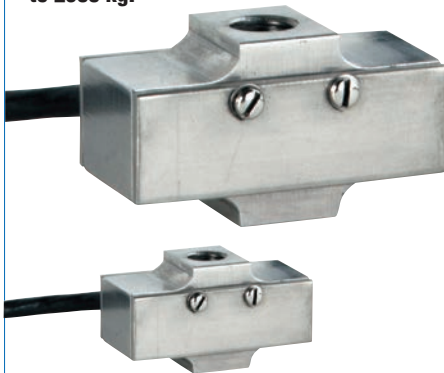


- 19mm diameter, ± 100 to ± 500 newton
- Dual M6x1 Mounting Studs
- 5-Point Calibration Provided

www.omega.co.uk/LCM201

LCM703

Universal link load cell, ± 5 kgF to ± 500 kgF

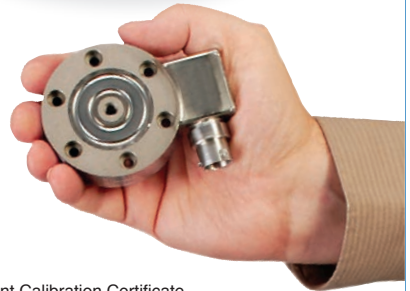
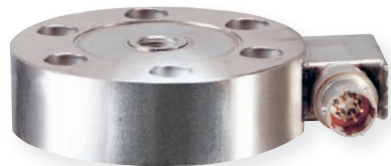


- 5 Point Calibration Certificate Included
- Low Profile
- High Accuracy

www.omega.co.uk/LCM703

LCMHD

Low Profile Tension & Compression Load Cells



- 5-Point Calibration Certificate
- 0.25% Interchangeability for Scale Applications

www.omega.co.uk/LCMHD

FMC-5000

Coriolis Meter for Liquids, Gases and Slurries



- Accuracy Over a Wide Flow Range From a Single Meter Optimizes Plant Efficiency
- Mass Flow Rate, Volume, Density and Temperature
- Rugged Meters with No Moving Parts

www.omega.co.uk/FMC-5000

FMG600

Electromagnetic Flowmeter Designed for Conductive Liquids



- Suitable for Pipes Up to 12"
- Virtually No Pressure Loss
- 4 to 20 mA and Frequency Outputs

www.omega.co.uk/FMG600

FDT-40 Series

Ultrasonic Flowmeter Non-Contact for Clean or Dirty Liquids



- Measures Energy Consumption
- Bi-Directional Flow Measurement
- 4 to 20 mA and Dual Alarm Outputs

www.omega.co.uk/FDT-40

FDT-21

Handheld Ultrasonic Flowmeter Ideal for Maintenance Tasks



- Ultrasonic Flowmeter with a 1% Accuracy
- Repeatability 0.2%
- Positive, Negative and Net Totaliser

www.omega.co.uk/FDT21

FMA-2600

Mass Flow Controllers with 20 Plus Gas Select Function



- 20+ Gas Calibrations, Including: He, O₂, Neon, N₂O, N₂, Air, Argon, CO, CO₂, Methane, Ethane, Propane, Butane, Acetylene, Ethylene, H₂
- Ranges Up to 1500 LPM

www.omega.co.uk/FMA2600_FVL2600

FMA5500A

Gas Mass Flow Controllers Control from 0-10 SCCM up to 100 SLM



- Flowmeter to read and Control Gas Mass Flow without Temperature or Pressure Compensation
- Tiltable LCD Display for Easy Reading
- Aluminum or Corrosion-Resistant 316 SS

www.omega.co.uk/FMA5400A_5500A

FPD3000

Positive Displacement Flow sensor for Solvents and Oils



- Temperatures up to 80°C
- Aluminium Body
- Non-Display Version Available

www.omega.co.uk/FPD3000

FL2000

Variable Area Flow Meters for Water and Air



- Water Ranges from 4 CCM to 75 LPM, Air Ranges from 40 CCM to 4000 LPM
- Threaded Brass Inserts for Quick Installation

www.omega.co.uk/FL2000

OMYL-RH20

Temperature and Humidity Data Logger with internal sensors



- Integral Temperature/Humidity Sensors
- Shock Proof, IP65 Housing (Dust and Water Proof)
- Up to 4 Million Readings (Internal Memory Size)

www.omega.co.uk/OMYL-RH20_OMYL-RH20E

INET-600

High Accuracy Direct-to-Sensor USB Data Acquisition System



- Connects Computer to Sensors and Controls via Analogue and Digital Inputs and Digital Outputs Via Windows® Software

• Supplied with Software for Real-Time Display
www.omega.co.uk/INET-600

OMB-DAQ-3000

High Speed Data Acquisition System



- Voltage Data Acquisition System, 1-MHz, 16-Bit
- Synchronous Analogue Input, Analogue Output, Digital I/O, and Counter/Timer I/O
- USB Interface

www.omega.co.uk/OMB-DAQ-3000

OM-EL-USB-1

Temperature Data Logger with LCD Display



- -35 to 80°C Measurement Range
- USB Interface for Set-Up and Data Download
- User-Programmable Alarm Thresholds

www.omega.co.uk/OM-EL-USB-1-LCD

OM-140-Series

Temperature Data Logger with LCD Display

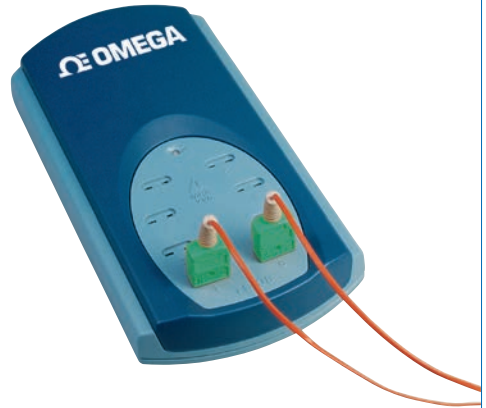


- Temperature and Humidity Readings
- Infrared Version Available
- One-Click Exporting of Logged

www.omega.co.uk/OM-140-SERIES

TC-08

8 Thermocouple Data Acquisition System



- 8-channels Thermocouple Data Acquisition Module to Measure and Record on a PC
- Real-Time Display and Data Logging

www.omega.co.uk/TC-08

OM-EL-WIFI_SERIES

Temperature and Humidity Wireless Data Logger



- Wireless Data loggers with WiFi Capability and Integrated Display
- Models with Internal Sensors or External Probe Inputs

www.omega.co.uk/OM-EL-WIFI_SERIES

RDXL6SD

Six Channel Handheld Temperature Data Logger



- Handheld Temperature Data Logger with Colour, Touch Screen
- 4 Type J, K, T, E, R, S or N Thermocouple Inputs and Dual 3-Wire Pt100 RTD Inputs

www.omega.co.uk/RDXL6SD

GAB-1700

Portable Benchtop Oxygen Analyser
Fast, accurate and reliable analysis



- Easy to Use
- Simple to Calibrate
- Simple to Calibrate

www.omega.co.uk/GAB-1700

CDTX-111

Conductivity and Temperature Monitor and Controller



- Dual 10 Amp Relays for On/Off Control or Alarms
- Selectable Hysteresis
- 4-20 mA Analogue Retransmission of Measured Conductivity or Temperature

www.omega.co.uk/CDTX-111_CDTX-112

OM-EL-USB-CO

Carbon Monoxide Data Loggers with USB Interface



- 0 to 1000 ppm CO (OM-EL-USB-CO) or 0 to 300 ppm CO (OM-EL-USB-CO300) Measurement Ranges

www.omega.co.uk/OM-EL-USB-CO

HHAQ-107

Handheld Volatile Organic Compound (VOC) Meter



- Metal-Oxide Semi-Conductor Sensor Detects Ammonia, Toluene, Ethanol, Hydrogen Sulfide (H₂S)
- Logs Up to 32,000 Data Points

www.omega.co.uk/OM-CP-WIND101A-KIT

OM-DVTH

Temperature and Humidity Data Logger



- Integral Sensor
- Temperature, Humidity and Dew Point
- USB Connection

www.omega.co.uk/OM-DVTH

PHTX-100

pH/ORP Meter & Transmitter Measure the cleanliness of Water



- Loop-powered 4 to 20 mA Transmitter
- Output Current Indicator for Out-of-Range Conditions
- Wall, Panel, Pipe and DIN-Rail Mounting

www.omega.co.uk/PHTX-100

PHH-7000 Series

Conductivity and pH Meters



- Ph and Conductivity Tester for Fast and Accurate Measurement
- Special Viewing Angle

www.omega.co.uk/PHH-7000

CDCN-961

Conductivity, Resistance and Total Dissolved Solids (TDS) Controller



- IP65 (NEMA 4X) Enclosure
- High/Low, and Alarm Relays
- Isolated 0.4 to 20 mA Retransmission Output

www.omega.co.uk/CDCN-961

Wireless

ZW-ED Series

Wireless Temperature, Humidity and Barometric Pressure Monitoring



- Web-Based Monitoring
- Low Power Consumption
- Transmit up to 1000 Metres

www.omega.co.uk/ZW-ED

UWTC Series

Thermocouple Temperature Monitoring Transmitter

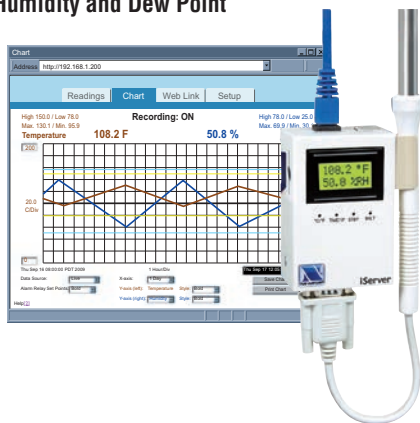


- Includes Software for Data Logging
- Transmits Temperature, Ambient Temperature, Signal Strength and Battery Status in Real Time

www.omega.co.uk/UWTC

iTHX-SD

Record and Monitor Temperature, Relative Humidity and Dew Point



- Send Alerts by Email or Text
- Back-up Battery- Ethernet Failure will not Interrupt Data Logging
- Built-in Backlit LCD Display

www.omega.co.uk/iTHX-SD

iSD-TC

Web-Ethernet Temperature Monitoring Virtual Chart Recorder



- Dual Thermocouple (10 Types)
- Alarms by Email or Text Message
- Record Years of Data onto SD Cards

www.omega.co.uk/iSD-TC

Heaters

ARMTIE

Industrial Immersion Heaters with Thermostat for Water



- 2½ BSP Brass Fitting
- Incoloy Pocket with 5 to 80°C or 30 to 90°C Thermostat Included
- IP55 Aluminium Terminal Cover

www.omega.co.uk/ARMTIE_HEATER

AHPF Series

Circulation Heaters for Low Flow Air and Liquid



- Air/Gas Flow Up to 425 Litres/Minute
- Air/Gas Outlet Temperatures up to 430°C
- Pressures Up to 6.9 bar

www.omega.co.uk/AHPF_HEATER

NIC60 and NIC80

Coiled Nickel-Chromium Alloy Resistance Heating Wire



- Pre-Coiled Heater Wire, Ready for Use
- 60% Nickel, 16% Chromium for Applications to 1000°C
- 80% Nickel, 20% Chromium for Applications to 1150°C

www.omega.co.uk/NIC60_NIC80

SSRDIN Series

DIN Rail Mount Solid State Relays

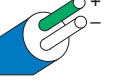


- Ratings Up to 30 A (22.5 mm), 45 A (45 mm), or 25 A 3-Phase
- Integral Heat Sink Eliminates the Need for Complex Thermal Calculations

www.omega.co.uk/SSRDIN600

International Colour Codes

All OMEGA Thermocouple Wire, Probes and Connectors are available with either ANSI or IEC Colour Codes. On our website, model numbers reflect the IEC Colour-Coded Product. Please contact sales or visit omega.co.uk for instructions on how to order ANSI Colour-Coded products.

ANSI Code	ANSI MC 96.1 Colour Coding		Alloy Combination		IEC 584-3 Colour Coding		IEC Code
	Thermocouple Grade	Extension Grade	+ Lead	- Lead	Thermocouple Grade	Intrinsically Safe	
J			IRON Fe (magnetic)	CONSTANTAN COPPER-NICKEL Cu-Ni			J
K			CHROME [®] NICKEL- CHROMIUM Ni-Cr	ALOMEGA [®] NICKEL-ALUMINUM Ni-Al (magnetic)			K
T			COPPER Cu	CONSTANTAN COPPER-NICKEL Cu-Ni			T
E			CHROME [®] NICKEL- CHROMIUM Ni-Cr	CONSTANTAN COPPER-NICKEL Cu-Ni			E
N			OMEGA-P [®] NICROSIL Ni-Cr-Si	OMEGA-N [®] NISIL Ni-Si-Mg			N
R	NONE ESTABLISHED		PLATINUM- 13% RHODIUM Pt-13% Rh	PLATINUM Pt			R
S	NONE ESTABLISHED		PLATINUM- 10% RHODIUM Pt-10% Rh	PLATINUM Pt			S
U	NONE ESTABLISHED		COPPER Cu	COPPER-LOW NICKEL Cu-Ni			U
B	NONE ESTABLISHED		PLATINUM- 30% RHODIUM Pt-30% Rh	PLATINUM- 6% RHODIUM Pt-6% Rh			B
G [*] (W)	NONE ESTABLISHED		TUNGSTEN W	TUNGSTEN- 26% RHENIUM W-26% Re	NO STANDARD USE ANSI COLOUR CODE		G (W)
C [*] (W5)	NONE ESTABLISHED		TUNGSTEN- 5% RHENIUM W-5% Re	TUNGSTEN- 26% RHENIUM W-26% Re	NO STANDARD USE ANSI COLOUR CODE		C (W5)
D [*] (W3)	NONE ESTABLISHED		TUNGSTEN- 3% RHENIUM W-3% Re	TUNGSTEN- 25% RHENIUM W-25% Re	NO STANDARD USE ANSI COLOUR CODE		D (W3)

* Not official symbol or standard designation

Wide Selection of Products at **omega.co.uk**

- > Next day shipping
- > Easy online ordering
- > Full technical support
- > Rapid customisation

Live Chat and Basket Sharing
features at omega.co.uk



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