





#### EXPERTISE I RELIABILITY I PROFESSIONALISM















Competence, reliability and professionalism are just some of the adjectives used to describe DATEXEL. Founded in 1992, today the company is a well-known name in the sector of electronic equipment for industrial automation and process control.

THE COMPANY'S ACTIVITIES COVER DIFFERENT SECTORS:

energy production, oil, foodstuffs, pharmaceutical, chemical industry, water processing, automation & engineering, paper.

THE COMPANY &



# SUMMARY

- 01. the company
- 06. products

- 02. production
- 03. research & development
- 04. quality control
- 05. window products

- 06. SLIM
  - 07. SMART
  - 08. SMART ATEX
  - 09. P.D.S.

  - 11. DAT5024/5028

- 12. DAT900
- 13. DAT3000
- 14. DAT6000
- 15. DAT1000
- 10. DAT200, DAT500 16. DAT700/8000/9550

17. POWER SUPPLIES







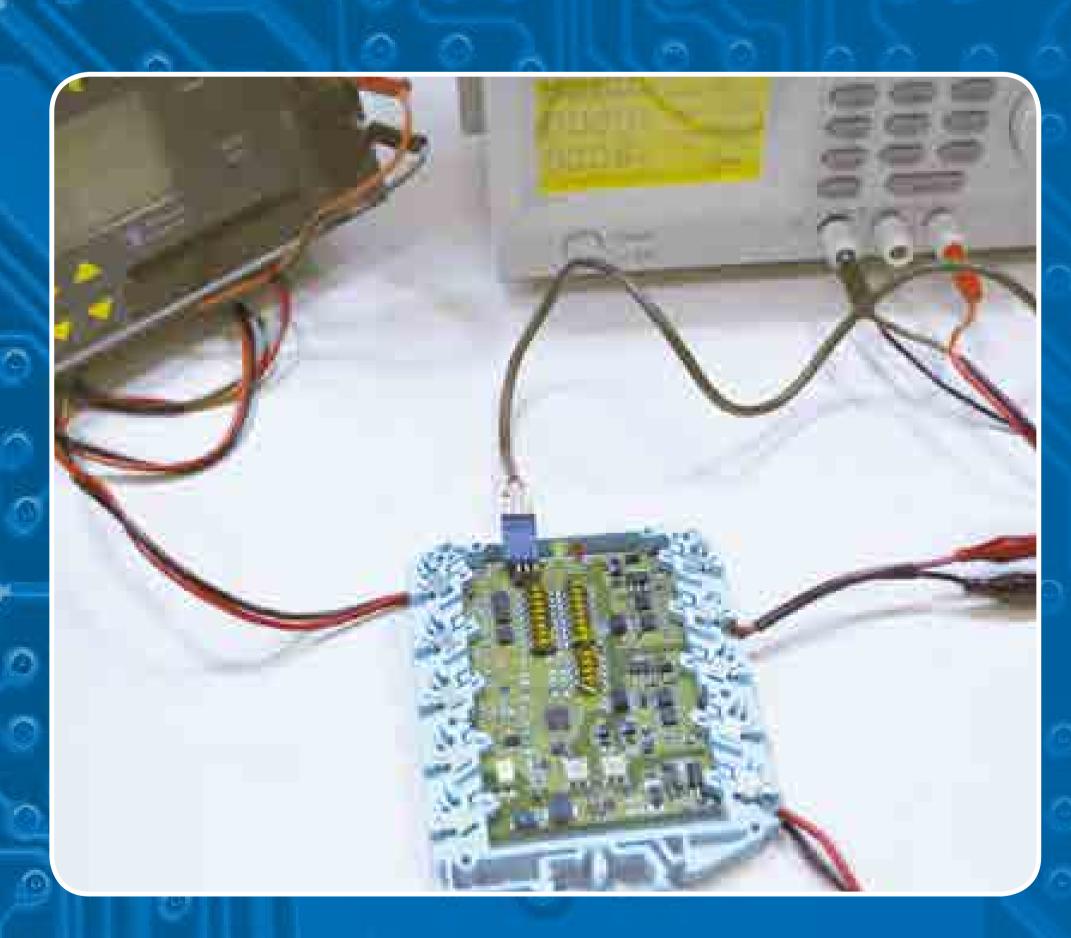


## The DATEXEL range is vast and complete and includes:

Transmitters, temperature converters (both analogue and digital), galvanic isolators, signal splitters, distributed I/O modules, A/D interface modules for PLC, trip amplifiers, power suppliers, current loop isolators, digital meters and Indicators.

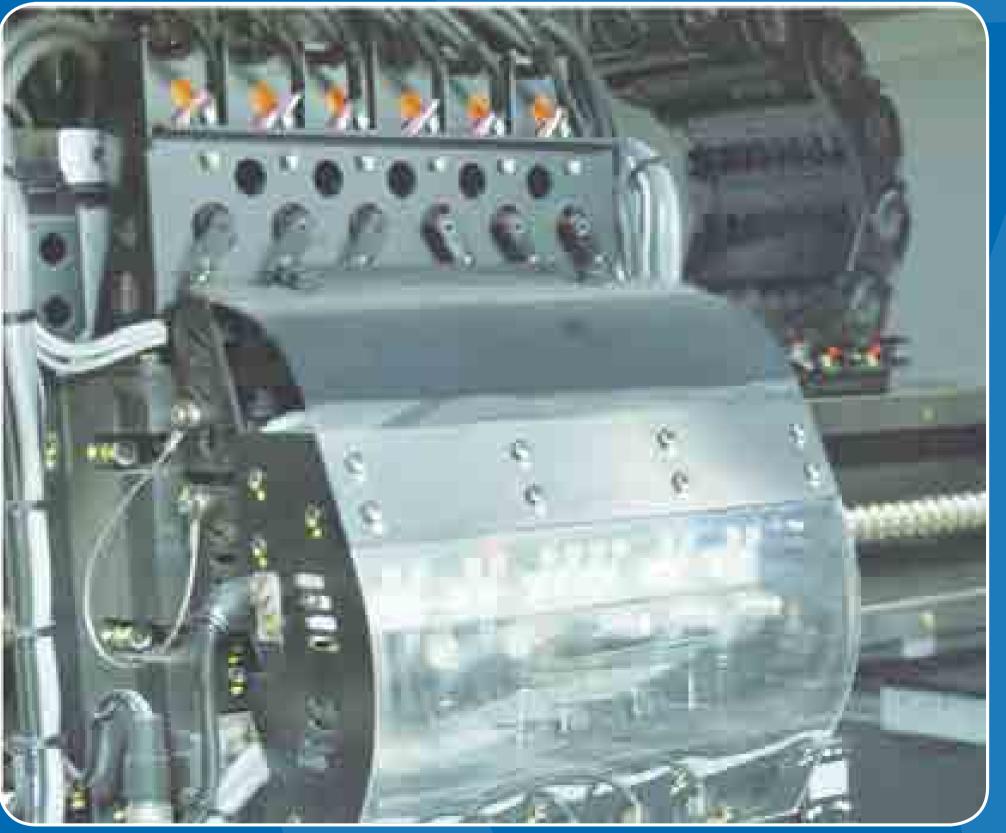
PRODUCTION &

















DATEXEL concentrates significant investments on RESEARCH & DEVELOPMENT thanks to the efforts of highly specialized technicians and researchers, and manages to achieve first-rate results. The work process occurs automatically with cutting-edge machinery (pick-and-place for assembly operations). The products are 100% tested, also thanks to the use of specific software applications and instruments that are periodically calibrated. All working processes (design, assembly, final testing) are carried out in-house.

Technological innovation and the search for integrated solutions mean that the company can offer its customers an increasingly exclusive service.





**DATEXEL** operates on a daily basis in full compliance with quality standards, and has obtained its certification in accordance with Standard UNI EN ISO 9001 (in 1996), subsequently adapted to the current standard ISO 9001:2008.

Another important acknowledgement obtained by the company is the ATEX 94/9/EC certification, concerning the type-approval of safety requirements for equipment and protection systems intended for use in a potentially explosive atmosphere.

In July 2006, DATEXEL also conformed to the RoHS Directive (standard 2002/95/EC), which sets restrictions on the use of certain hazardous substances when manufacturing various types of electrical and electronic components, thus also protecting the environment through its products.

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# PRODUCT RANGE

- "SLIM SERIES" signal converters for DIN rail mounting
- "SMART SERIES" and "SMART SERIES" temperature/signal transmitters and converters for DIN rail mounting, configurable by PC
- "P.D.S. SERIES" temperature signal transmitters and converters for DIN rail mounting, programmable by dip switch
- "DAT200 SERIES" signal transmitters converters for DIN rail mounting
- "DAT500 SERIES" galvanic isolators for DIN rail mounting
- "DAT5024/DAT5028 SERIES" trip amplifiers for DIN rail mounting
- "DAT9000 SERIES" programmable controllers
- "DAT3000 SERIES" data acquisition and control modules
- "DAT6000 SERIES" a/d interface modules for plc
- "DAT1000 SERIES" temperature transmitters for DIN B in-head mounting
- "DAT700 SERIES", "DAT8000 SERIES", "DAT9550 SERIES" digital meters and indicators for panel mounting
- "POWER SUPPLIES"



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#### SLIM SERIES

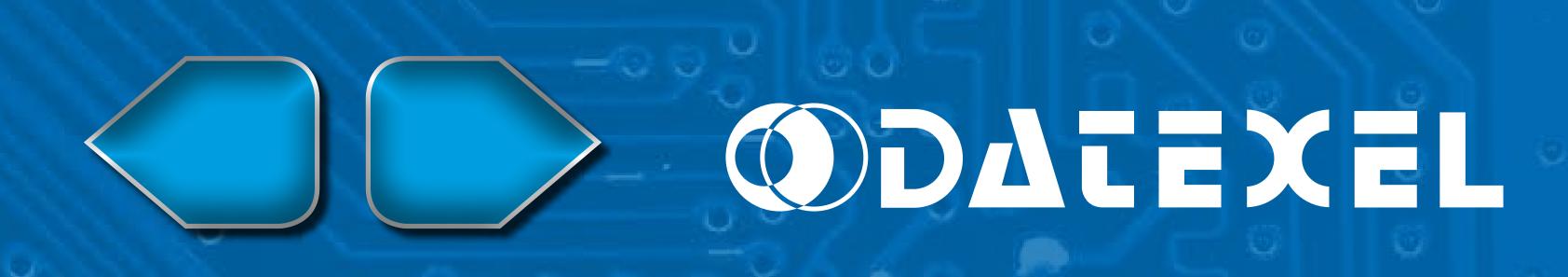
The **SLIM** series line of converters was designed to provide users with the highest flexibility in terms of signal conversion.

For additional information about the product, please visit the page at www.datexel.it



The entire series can be programmed by dip-switches, which can be used to configure the more common input and output ranges, or through a Personal Computer, interfaced with the DATESOFT software, in combi-ODATEXEL nation with the PRODAT interface, which can be used to customize the input and output ranges according to one's needs.

All these features in a device that is only 12.5 mm wide!









#### SMART SERIES

The **SMART** series devices are subdivided into universal Converters and Transmitters.

They can accept different kinds of incoming signals from the field: 2, 3 or 4-wire Pt100 sensors,

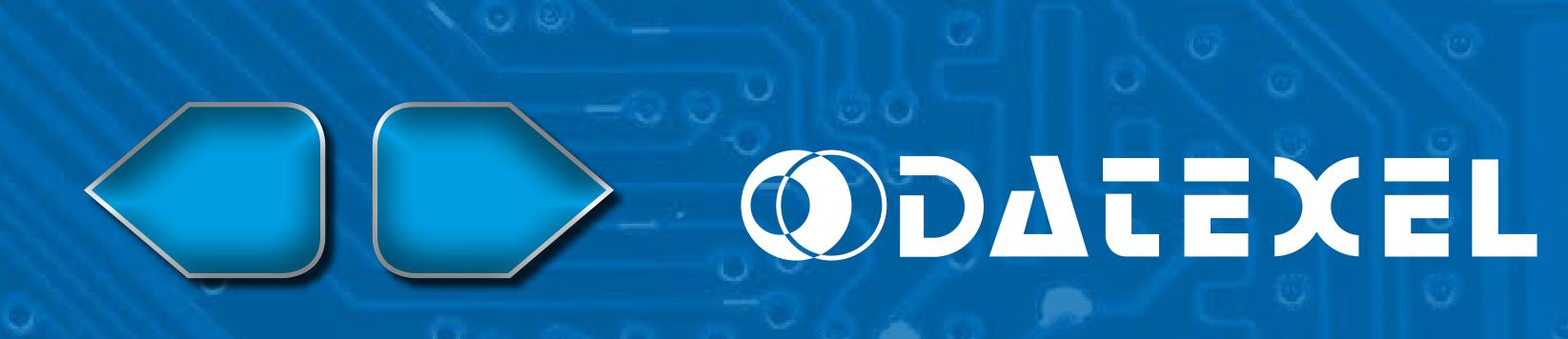
thermocouple sensors, potentiometric sensors, analogue sensors

(voltage or current).

For additional information about the product, please visit the page at www.datexel.it

The entire range of SMART series devices can be configured by the user by PC using the specific PROSOFT software, in combination with the PRODAT interface.











## INTRINSICALLY SAFE SMART SERIES ATEX94/9/EC

The Intrinsically Safe SMART Series devices, type-approved according to Directive ATEX94/9/EC, are subdivided into three different product categories: universal input transmitters to be installed in a potentially explosive atmo-

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sphere (Zone 0) codes: DAT 2015 IS, DAT 4035 IS, DAT 1010 IS, DAT 1015 IS, DAT 1065 IS.

Converters / Barriers for universal input or current loop (0-4.....20 mA), suitable for installation in safe zone for connections towards zone 0, codes: DAT 4235 IS in the following versions: A = Converter/Barrier, B= Double trip amplifier, C= Converter/Barrier + Double trip amplifier. DAT 5030 IS in the following

versions: A = Single-channel barrier, AH = HART transparent single-channel

barrier, B= Double-channel barrier, BH= HART transparent double-channel barrier.

The entire range of INTRINSICALLY SAFE SMART transmitters (excluding the Barriers DAT5030IS that can be configured through DIP SWITCH) can be configured by the user by means of a PC using the specific PROSOFT software, in combination with the PRODAT interface equip-

The devices of the DAT4235 IS product family, can be configured by the user in a safe zone using the specific PROSOFT software in combination with the PRODAT IS interface.



For additional information about the product, please visit the page at www.datexel.it

DAT 2015 IS DAT 4035 IS DAT 1010 IS DAT 1015 IS DAT 1065 IS	
DAT 4235 IS	
DAT 5030 IS	II (1) GD [Ex ia] IIC – [Ex iaD]





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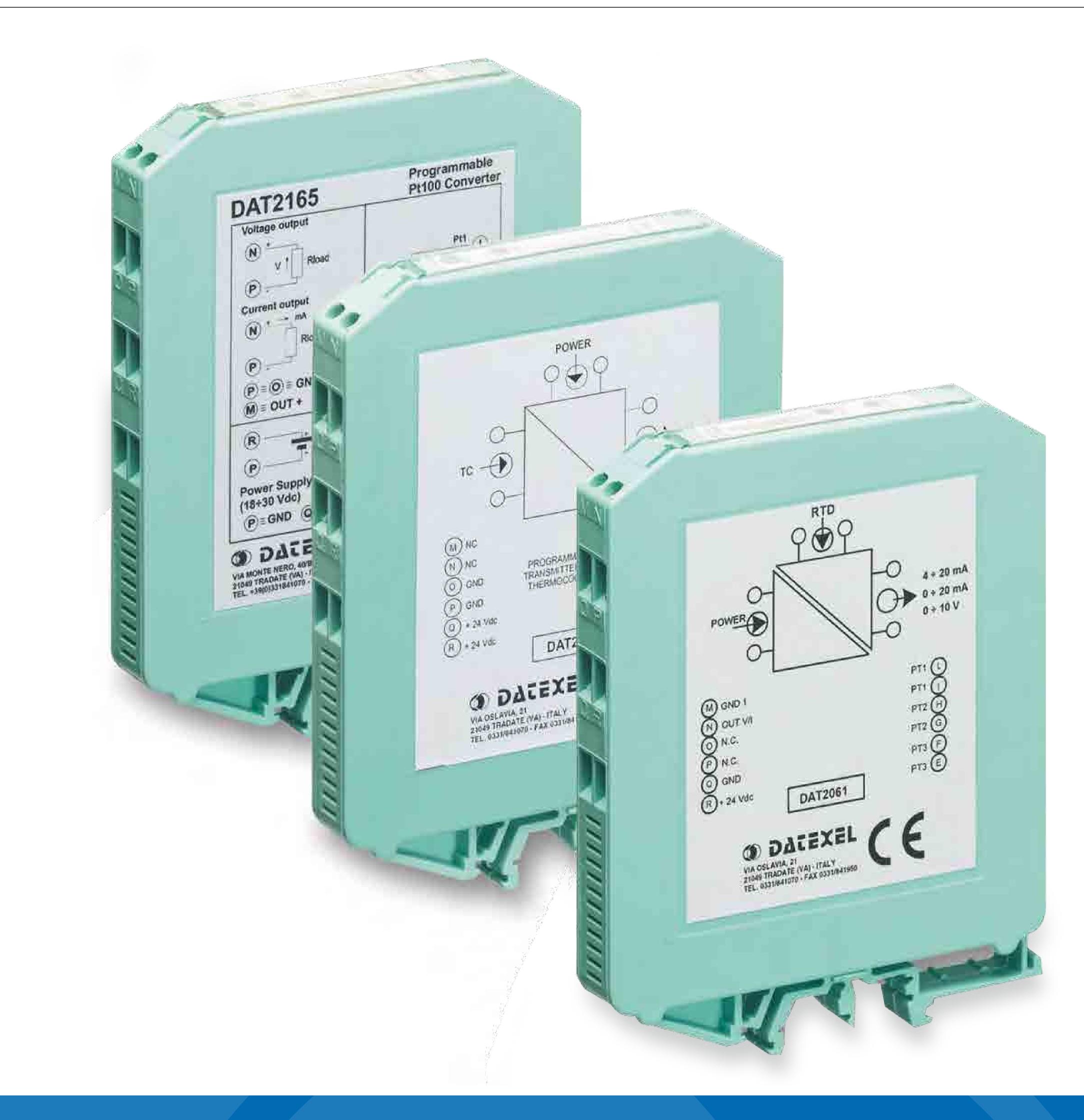




#### P.D.S. SERIES

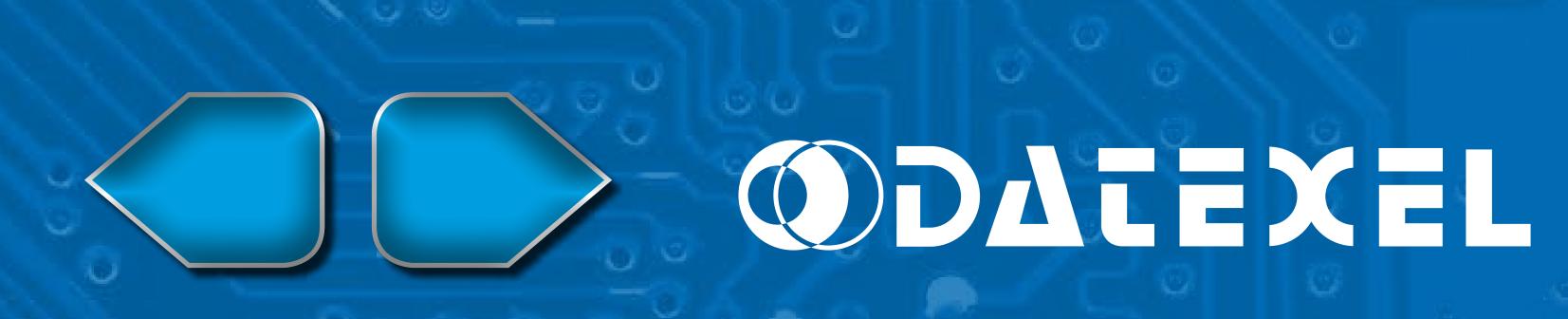
The **P.D.S.** (Programmable from Dip Switch) Series transmitters and converters can accept input signals coming from Pt 100 2 or 3-wire sensors, thermocouple sensors, current or voltage, strain gauge.

For additional information about the product, please visit the page at <a href="https://www.datexel.it">www.datexel.it</a>



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## DAT200, DAT500 SERIES

The **DAT200** Series transmitters and converters can accept incoming signals from potentiometers (**DAT205**), or voltage or current signals (**DAT207**).

For additional information about the product, please visit the page at www.datexel.it



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The self-powered DAT500 Series galvanic isolators can isolate signals included in the 0.20 mA range.

## They are subdivided into:

- Galvanic isolator 0...20 mA / 0...20 mA (DAT511)
- Galvanic isolator 0...20 mA / 0...20 mA Hart transparent protocol (DAT511H)



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## **DAT5024 / DAT5028 SERIES**

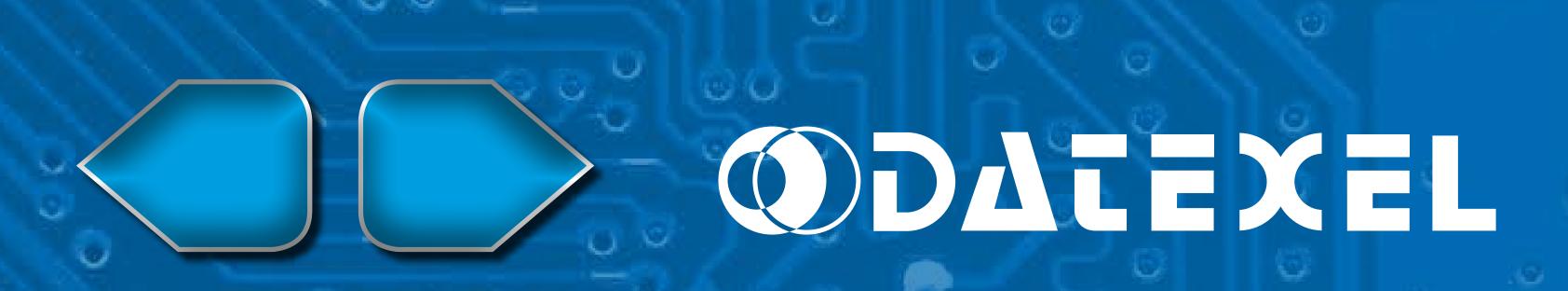
The DAT5024/DAT5028 Series trip amplifiers can accept different types of input signals coming from the field.

For additional information about the product, please visit the page at www.datexel.it



Trip amplifier for universal input, programmable by dip switch









### DAT9000 SERIES

The **DAT9000** Series intelligent units were designed by DATEXEL to offer its customers products that, thanks to their capabilities, allow them to manage various architectures in the area of small to medium size automation systems and process control through the connection of a network of MODBUS RTU Master/Slave devices connected by way of RS-485.







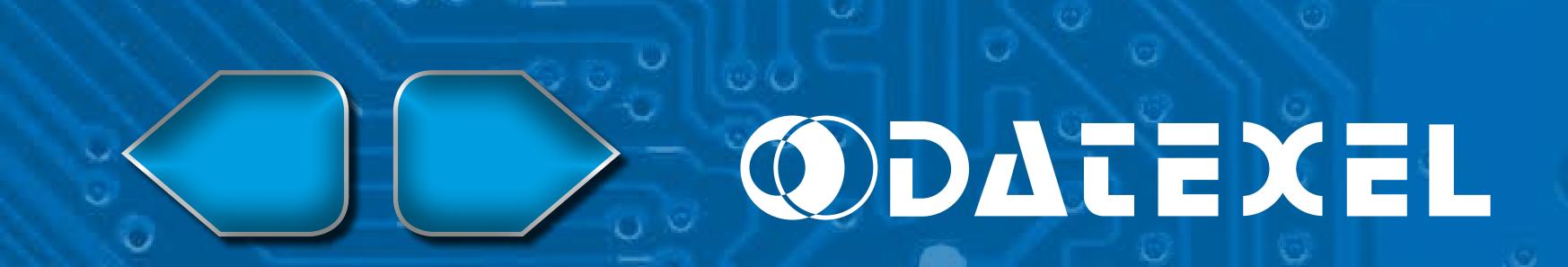
For additional information about the product, please visit the page at www.datexel.it

The **DAT9000** units read and write the parameters of the field devices to which they are connected, processing functions of the logical/mathematical type, including complex ones, such as for example: alarms, linearization, arithmethic mean, square roots, etc..

Intelligent unit with integrated analogue-digital I/O

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SL Presentation



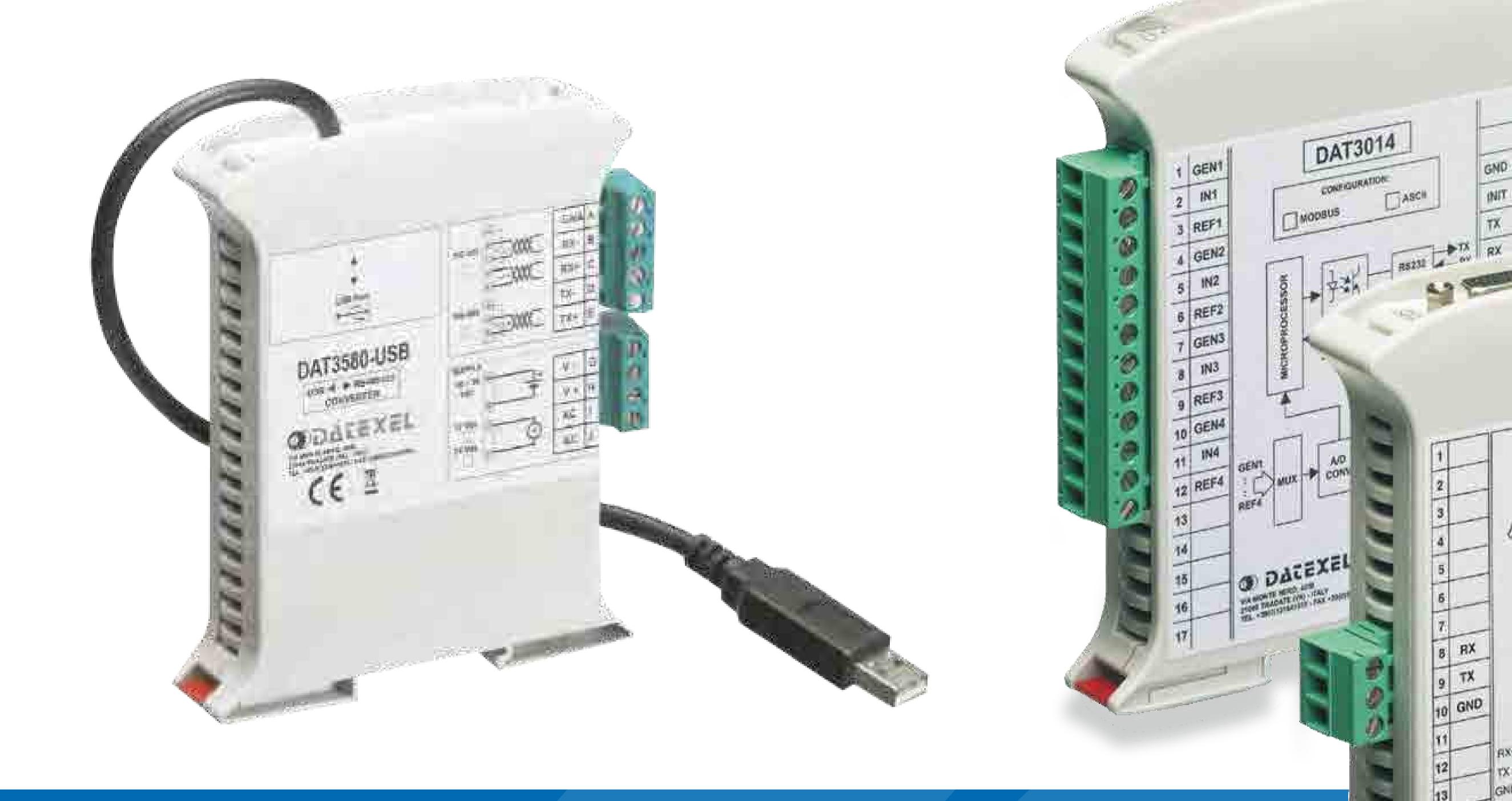




## DAT3000 SERIES

The **DAT3000** Series data acquisition and control modules represent a complete solution for the processing of both digital and analogue I/O signals.

For additional information about the product, please visit the page at www.datexel.it













## DAT6000 SERIES

The **DAT6000** series modules represent an evolution in techniques for the connection of analogue signals to a PLC. They amplify, linearise, filter and isolate analogue signals coming from multiple sensors, and convert them into a high-resolution digital signal which is then transferred to the PLC by means of a line connected to any one of the controller inputs, and which consists of a series of 16-bit "words"

that contain the value of analogue inputs.

For additional information about the product, please visit the page at www.datexel.it

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The transfer is controlled by the same PLC, with a clock signal generated on one of its output ports. A data bit is transmitted with each clock pulse.

With few simple instructions, the PLC can acquire multiple analogue signals on a single digital input.

Moreover, the modules are also equipped with an Enable signal managed by the controller that "multiplexes" multiple modules to the same digital input and to the same clock signal.







#### DAT1000 SERIES

The **DAT1000** series transmitters can accept input signals coming from Pt100 sensors with 2, 3 or 4 wires, thermocouple sensors, potentiometer sensors or voltage signals (mV).

For additional information about the product, please visit the page at www.datexel.it





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They provide a 4.20 mA signal output with two-wire technique, measurable in series with supply loop.

The series consists of devices with range configurable by PC. They can be configured quickly and easily by the user thanks to the specific Prosoft software, in combination with the PRODAT interface.









## SERIE DAT700, DAT8000, DAT9550

The digital meters and indicators series consists of instruments for process field and temperature measurements. The **DAT700** series is available in enclosure size 36x72, and it includes the following models:

- Digital indicators with 3.5 digits LED (DAT701)
- Digital indicators with 3.5 digits LCD (DAT702)
- Self-powered digital indicators with 3.5 digits LCD (DAT733)
- Digital thermometers for Pt100 sensors or Thermocouple with 3.5 digits LCD or LED (DAT734, DAT735)

For additional information about the product, please visit the page at www.datexel.it

The **DAT8000** series features a single programmable model with 4-digit LED display, self-powered by current loop, in a 48x96 enclosure (DAT8050).







## Power supplies MEANWELL MDR series

Switching DIN rail mounting power supplies

For additional information about the product, please visit the page at <a href="https://www.clatexel.it">www.clatexel.it</a>





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PRODUCTS