

delta**due**® series

Control and acquisition modules

with fieldbus for DIN rail mounting

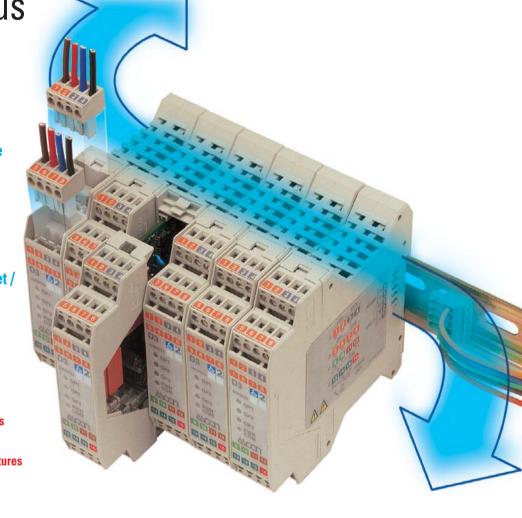
Not just I/O modules
Process and Temperature
controllers

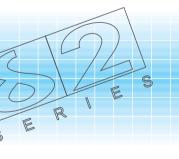
Analogue and digital I/O modules

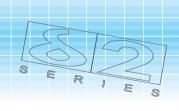
Transmitters with alarm thresholds

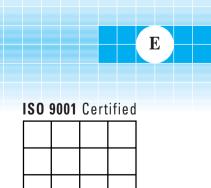
PROFIBUS DP / DeviceNet / CANOpen / Modbus TCP/ Modbus RTU fieldbus Interfaces

- A complete range of compact and flexible modules
- PC configurable
- Wide choice of Operator Panels
- Built-in RS 485 Modbus
- Fits the most common architectures









ASCON'S CONTROL AND ACQUISITION

delta**due**® series

ASCON's process control experience and the increasing need for integration of the control systems have brought to the development of the new deltadue® series, consisting in control and acquisition modules.

The deltadue® modules can either be rear panel or on-machine mounted. This way, control panels can be more compact and distribution on the plant or on the machine can be optimized. The modules are independent. Each module can work as a single unit or within a set of modules as a part of a stand-alone control system, or integrated in PLC or PC systems. Integration into PROFIBUS DP or DeviceNet or CANOpen or Modbus TCP or Modbus RTU is assured by the Gateway modules.

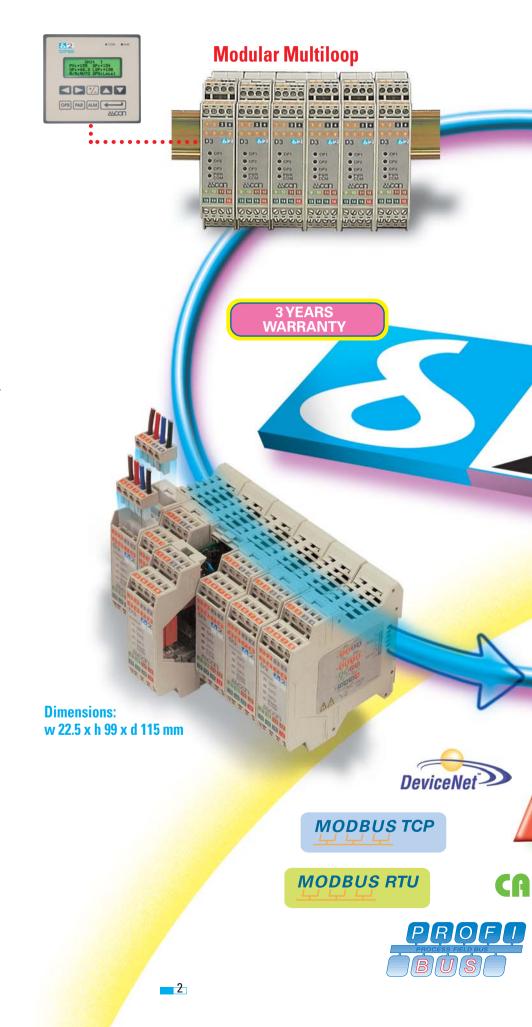
User friendly software assists rapid PC configuration of deltadue®.

A complete range of modules...

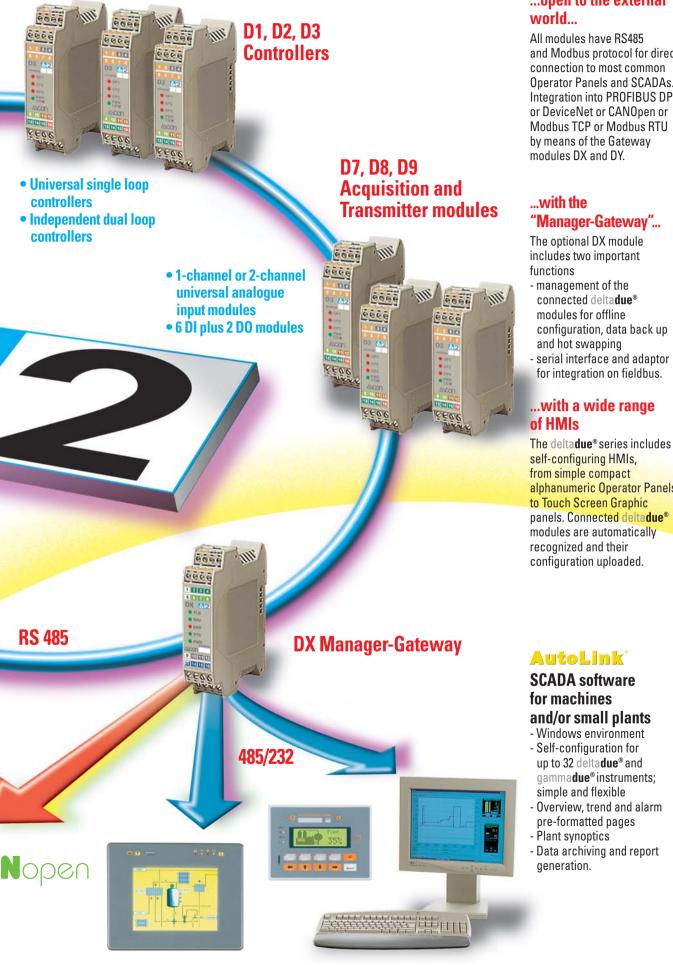
- PID single loop and dual loop controllers with universal input and with time proportioning, valve drive and analogue outputs
- Modular Multi loop controllers up to 31 or more zones
- Analogue and digital data acquisition for:
- PC based systems field interface (front-end)
- Expansion of PLCs or other data processing units.

...compact and flexible...

- Universal input: T/C, RTD (Pt100), mA, mV, Hz, IR sensors and a special Custom linearisation
- Auxiliary power supply for 2-wire transmitters
- · Relay, SSR and SSR drive.
- Special functions, Start-up, Timer, etc.
- Hot-swapping
- Common bus for serial communications and 24Vdc power supply
- DIN rail mounting
- Polarized terminal plugs.



N MODULES FOR DIN RAIL MOUNTING



...open to the external

and Modbus protocol for direct connection to most common Operator Panels and SCADAs. Integration into PROFIBUS DP or DeviceNet or CANOpen or Modbus TCP or Modbus RTU by means of the Gateway

"Manager-Gateway"...

The optional DX module includes two important

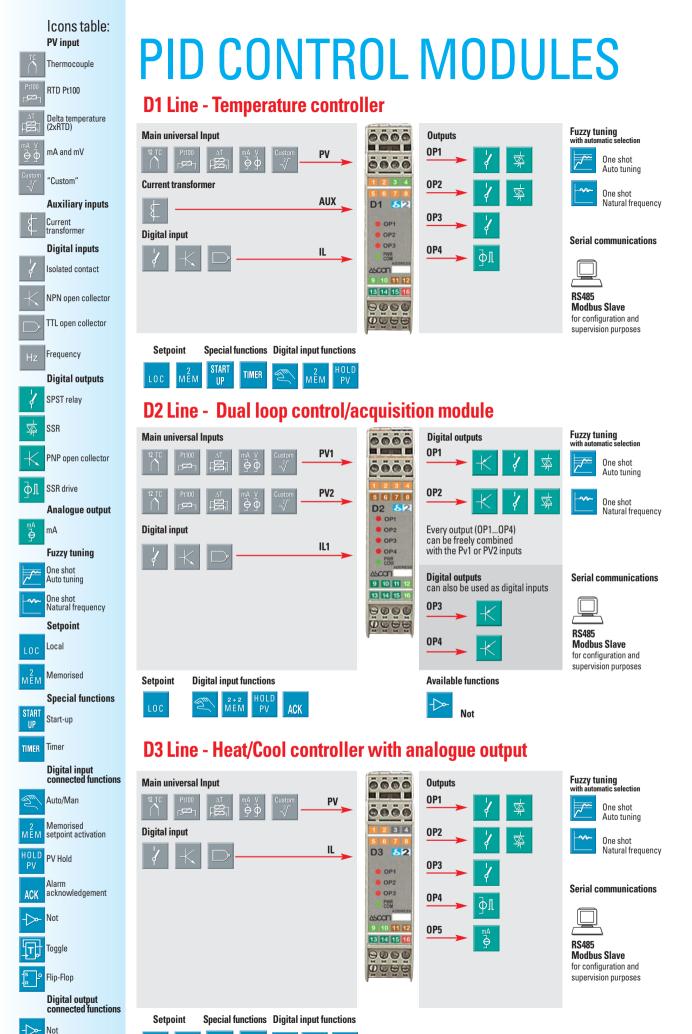
- connected deltadue® configuration, data back up
- serial interface and adaptor for integration on fieldbus.

...with a wide range

self-configuring HMIs, from simple compact alphanumeric Operator Panels to Touch Screen Graphic panels. Connected deltadue® modules are automatically configuration uploaded.

and/or small plants

- Windows environment
- Self-configuration for up to 32 deltadue® and gamma**due**® instruments:
- Overview, trend and alarm
- Data archiving and report

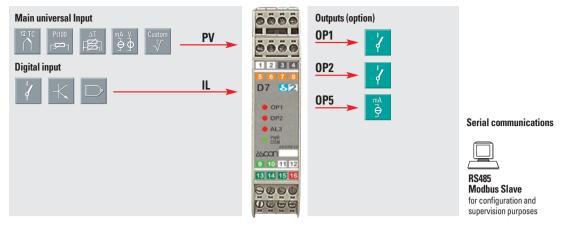


Hold

IIIIII PWM

ACQUISITION MODULES

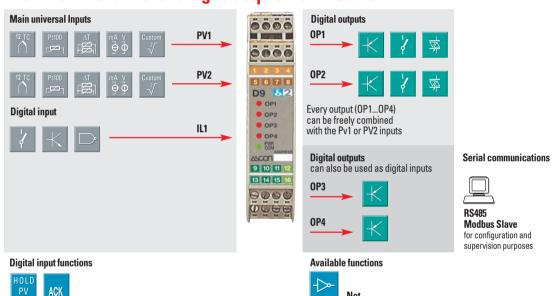
D7 Line - Analogue acquisition, alarm thresholds and transmitter module



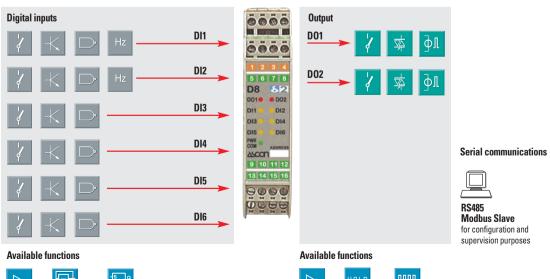
Digital input functions



D9 Line - 2-channel analogue acquisition module

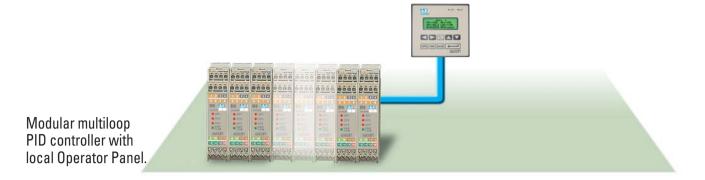


D8 Line -Digital I/O acquisition module with 6 Inputs and 2 Outputs





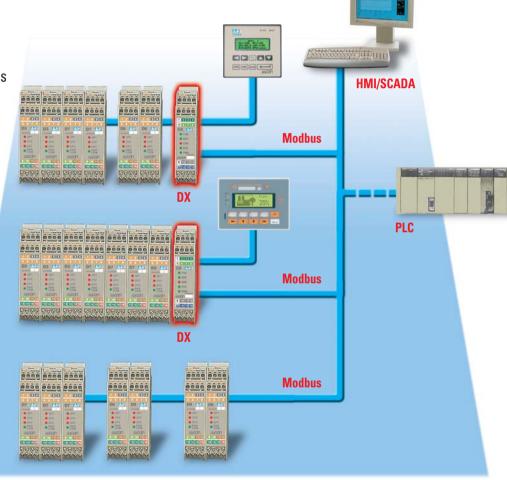
ARCHITECTURES A



Distributed control and acquisition system with DX module (manager and bus interface) for hot swapping and connection to local Operator Panel and remote SCADA.

Modular multiloop PID controller with local Operator Panel interfaced with remote SCADA.

Distributed I/O modules for acquisition, data logging and centralised supervision of analogue and digital signals with the possibility of alarms and local commands.



Industries and Applications

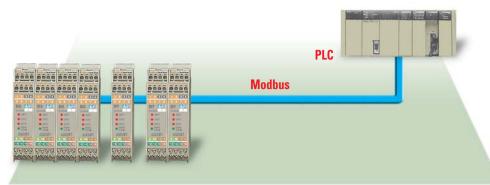
Plastic and Rubber: Injection, Extrusion, Hot-Runners

Packaging: Thermowelding, Thermoforming

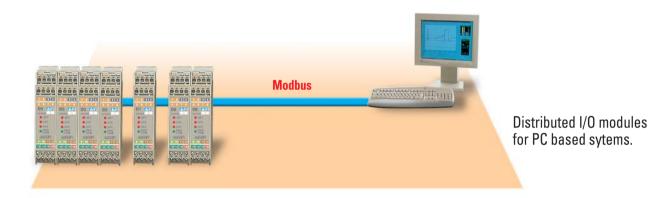
Food: Dairy products, Food Packaging, Bottling, dried and fresh Pasta, oven Products, cereal Silos, preserving-ripening stores Vehicles: engine testing Counters, painting Plants, plate welding Plants Ceramic and Brick Works: continuous Furnaces, intermittent Furnaces, Driers

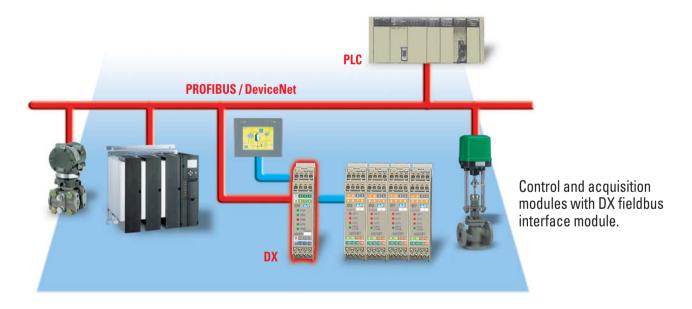


ND APPLICATIONS



Integration of PLC systems with external distributed PID controls and I/O modules.





Metal Works: blast Furnaces, thermal treatment Furnaces Glass: blast Furnaces; Furnaces for the treatment of flat, hollow, curved glass **Chemistry and Pharmaceutics:**

Fine chemistry, Pharmaceutics, Cosmetics, Paints and Enamels Power: Boilers, Burners Industrial Air Conditioning and Refrigeration: climatic Chambers, Chillers Shipyards: hull Automation Water Treatment: waste Waters, Primary Waters, Semi-Conductors.





DX - Manager-Gateway Line

The DX module has 3 serial ports and includes two important functions:

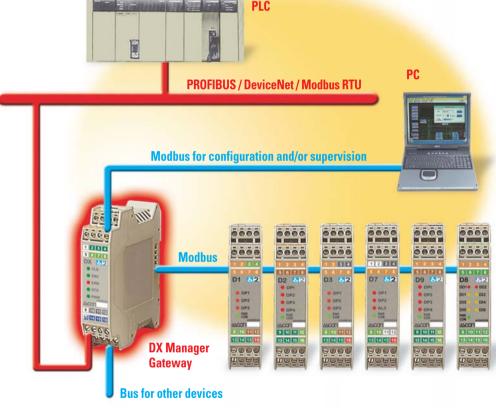
- Manager
- Gateway.

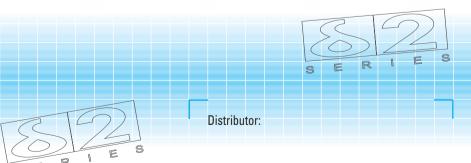
The "Manager" memorises the configuration and parameters of each module and monitors that the latter functions correctly.

Any time a module is substituted, this is recognised by the DX-Manager, which

automatically reconfigures and parametrises the substituted module. The Gateway includes: one fieldbus slave port for the conversion Modbus/PROFIBUS DP, Modbus/DeviceNet and Modbus RTU/Modbus RTU; two RS485 Modbus Master ports for the connection to the delta due® modules and to other Ascon's.

or other manufacturer's, devices; one RS485/RS232 Modbus Slave port for the connection to Operator Panels, Supervision PCs and for the configuration of the deltadue® modules via PC.





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