INPUTS/OUTPUTS ACQUISITION SYSTEM

Series µCs



The series µCs consists of measure converters for industrial signals (process, temperature, resistance, frequency...) which can either operate in an independent and autonomous way or be interconnected in a local network with interfaces of analog and relay outputs, or logic inputs

Possibility to add on the communication bus a supervision and concentrator module with output Modbus, Ethernet, Profibus, Profinet and optionally with Datalogger.

DIN rail footing for the distribution of the power supply and the communication signals.

Power supply 24 V DC

Galvanic isolation between input/output/supply: 2.5 kV

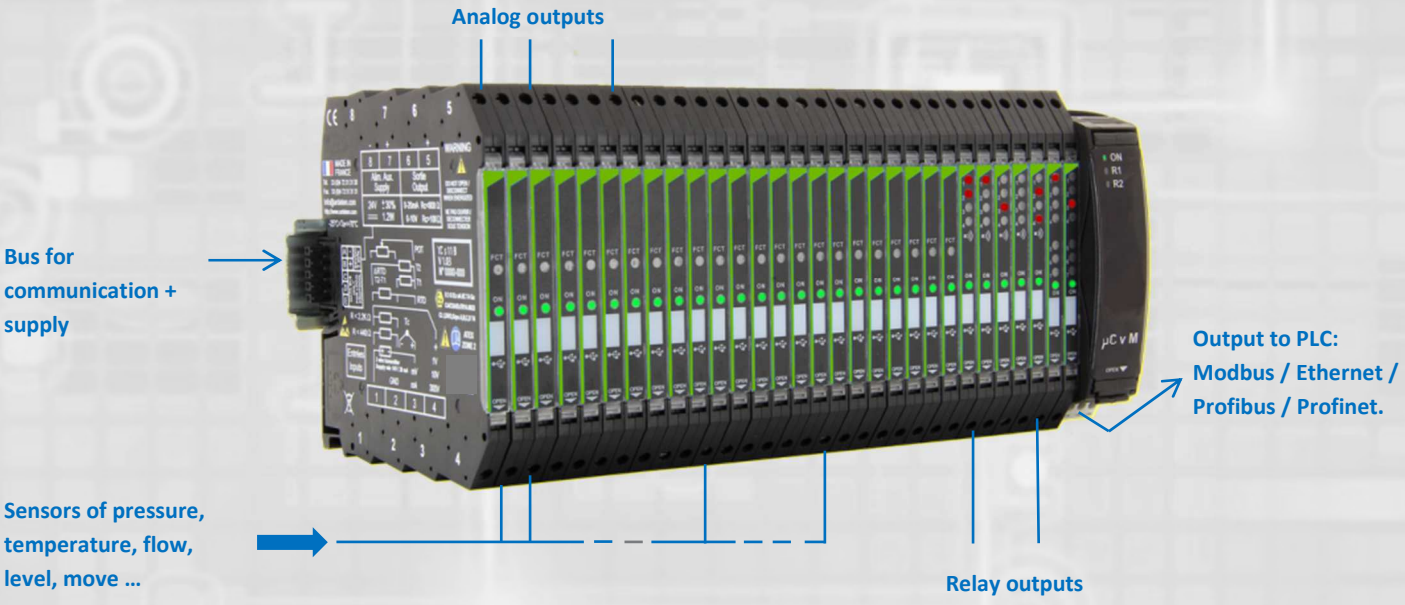
Extra thin housing: 7.2 x 114 x 114 mm.

Easy programming by µUSB plug on front face or quick configuration by µswitches for the versions S.

ATEX area 2 **II 3 G Ex nA IIC T4 Gc**
CL1,DIV2,Grps ABCD T4

Marking:

Typical example of implementing:



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Series µCs

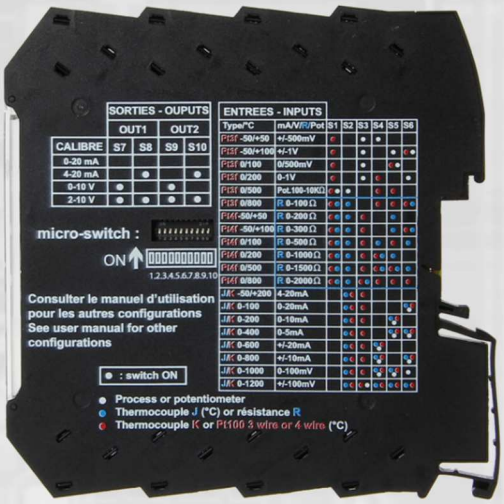
Programmable converters:



- ***µCs 12***: Input mA, mV, V ➔ 1 analog output
- ***µCs 212***: Input mA, mV, V ➔ 2 analog outputs
- ***µCs 11***: Universal input ➔ 1 analog output
- ***µCs 211***: Universal input ➔ 2 analog outputs
- ***µCs PT100***: PT100 input ➔ 1 analog output
- ***µCs 50***: Frequency input ➔ 1 analog output
- ***µCs 250***: Frequency input ➔ 2 analog outputs
- ***µCs 60***: 2 frequency inputs ➔ 1 analog output
- ***µCs 260*** : 2 frequency inputs ➔ 2 analog outputs
- ***µCs 61***: 2 frequency inputs + integrator ➔ 1 analog output
- ***µCs 261***: 2 frequency inputs + integrator ➔ 2 analog outputs
- ***µCs 70***: TRMS voltage input ➔ 1 analog output
- ***µCs 71***: TRMS current input ➔ 1 analog output

Fast version F (<10 ms) available for the µCs 11/12/211/212

Converters configurable by switches:



Easy and quick configuration of the input and outputs without need of recalibrating, via 10 micro-switches.

Available versions:

- ***µCs 13 S: Universal input (except voltage >1 V), 1 output***
- ***µCs 213 S: Universal input (except voltage >1 V), 2 outputs***
- ***µCs 13 S PT100: PT100 input, 1 output***
- ***µCs 213 S PT100: PT100 input, 2 outputs***
- ***µCs 14 S: Input mA, mV, V, 1 output***
- ***µCs 214 S: Input mA, mV, V, 2 outputs***



Connection of the 24 vdc power supply either on the µCs housing or via the DRB-5 footing .

Footing mandatory for the types with 2 analog outputs.

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Optional modules:



Modules of analog outputs

µCs 2A **:** 2 isolated analog outputs

µCs 4A **:** 4 isolated analog outputs



Modules of relay outputs

µCs 4R **:** 4 relay outputs

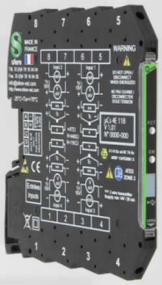


Modules of logic inputs

µCs 2T **:** 2 logic inputs, non isolated

µCs 4T **:** 4 logic inputs, isolated

µCs 6T **:** 6 logic inputs, non isolated



Modules of measure inputs

µCs 4E11 **:** 4 universal inputs

µCs 4E12 **:** 4 inputs mA, mV, V.

Concentrator supervisor:



The µCv M is a 24 VDC power supply controller and a concentrator of measures for the converters or modules of the series µCs.
It allows configuring and supervising the measures and the inputs/outputs of a local network consisting of µCs's. The measures can be time-dated and stored inside a memory card of the type « microSD » (option D)

The programming is done through the software SlimSET via the µUSB access.
The supervision is performed depending on the version via a RS485 Modbus, Ethernet, Profibus or Profinet link (reading and writing with the option Y).
Option C « software workshop »: 20 calculation formulas, programmable in a dynamic way (operators, pre-defined functions, constants…)

The µCv M allows to direct the main power supply 24 VDC or the emergency power supply on the footings of a network of maximum 50 µCs 's.

Available versions:

- ***µCv M: RS485 Modbus communications***
- ***µCv MPB: Profibus link***
- ***µCv MP: Profinet link***
- ***µCv ME: Ethernet link***
- ***µCv MEE: Ethernet link + Sender to remote network***
- ***µCv MER: Ethernet link + Receiver from remote network***
- ***µCv MEER: Ethernet link + Sender to and receiver from remote network***



Supervisor and concentration module in 7.2 mm housing

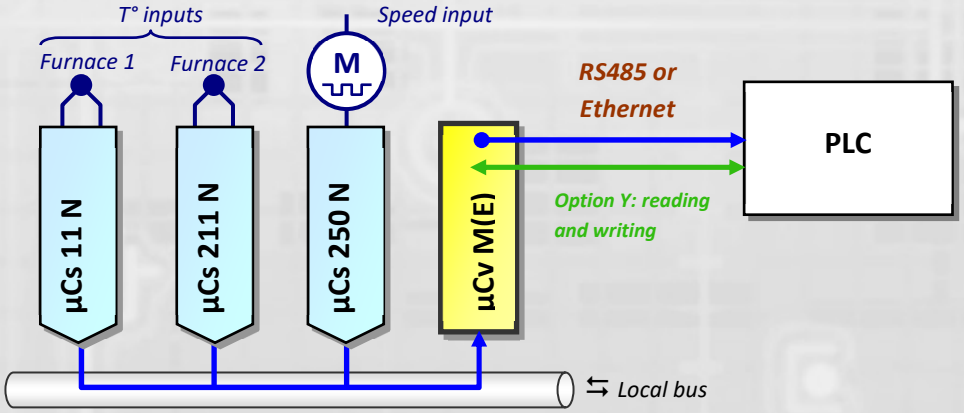
- ***µCs M: RS485 Modbus communications***

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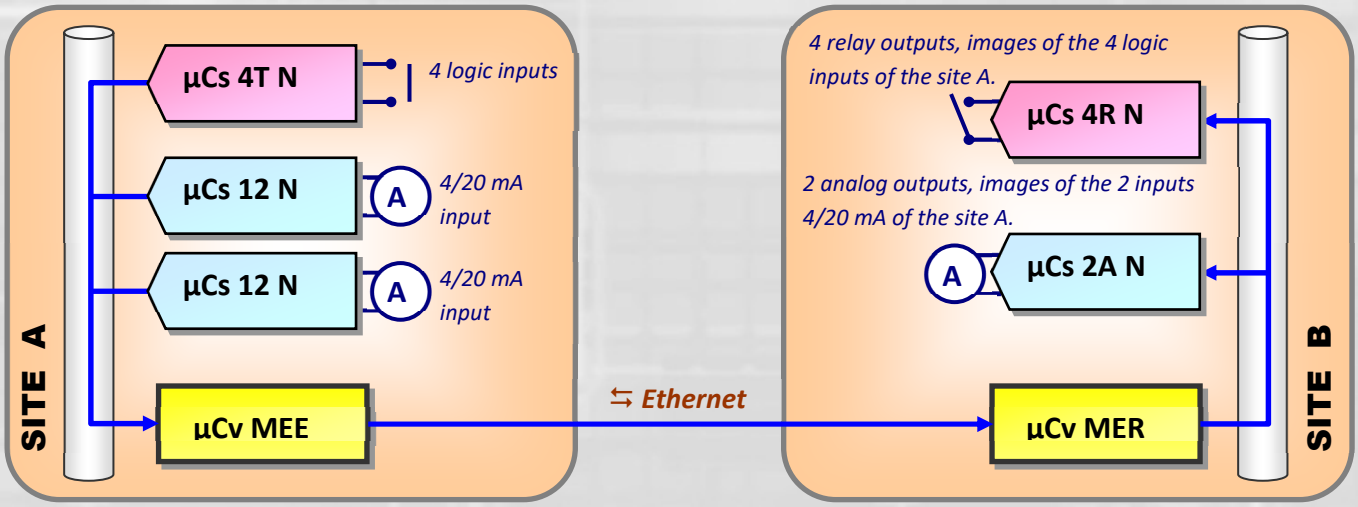
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Examples of applications:

1 –Sending of several measures on a PLC, in MODBUS (RS485) or Modbus TCP (Ethernet)



2 – Sending of the measures from a site to a remote site :



3 – Exchanges of inputs/outputs between 2 remote sites:

