

# Data Concentrator

## SIGMA - SG316



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The new SIGMA SG316 concentrator was born from the need to update and replace the obsolete SG302 and SG303 devices; in the new project we improved every aspect of the predecessors introducing important additional features, but maintaining and, if it is possible, improving its reliability and strength.

Sg316 is able to acquire up to 32 serial lines in current loop coming from PULCE SG197 or MAGO SG401 meters and to perform on those all congruity and diagnostic checks in real time.

Unlike previous models, the new concentrator is composed by a unit called Master that involves all the communication ports to which one can be linked from one to four Slave modules, each one with eight channels, for a greater flexibility according to the specific needs of the plant. The new container is suitable for fixing the concentrator on a standard DIN profile bar and the connection between the various modules is carried out via a male-female connector, so it is enough to slide and insert modules side by side, without the need of cables or tools.

Serial communication ports are now four, two RS232 and two RS485, the communication protocol is freely configurable by an internal jumper.

The most important news is surely the Ethernet communication port with modbus TCP-IP protocol: this feature allows you to acquire data from a PLC, operator panels, Scada etc. simply by inter-linking the SG316 to plant's network. Therefore we drastically reduced the consumption, that is now 70% lower than previous devices.

# Main technical features

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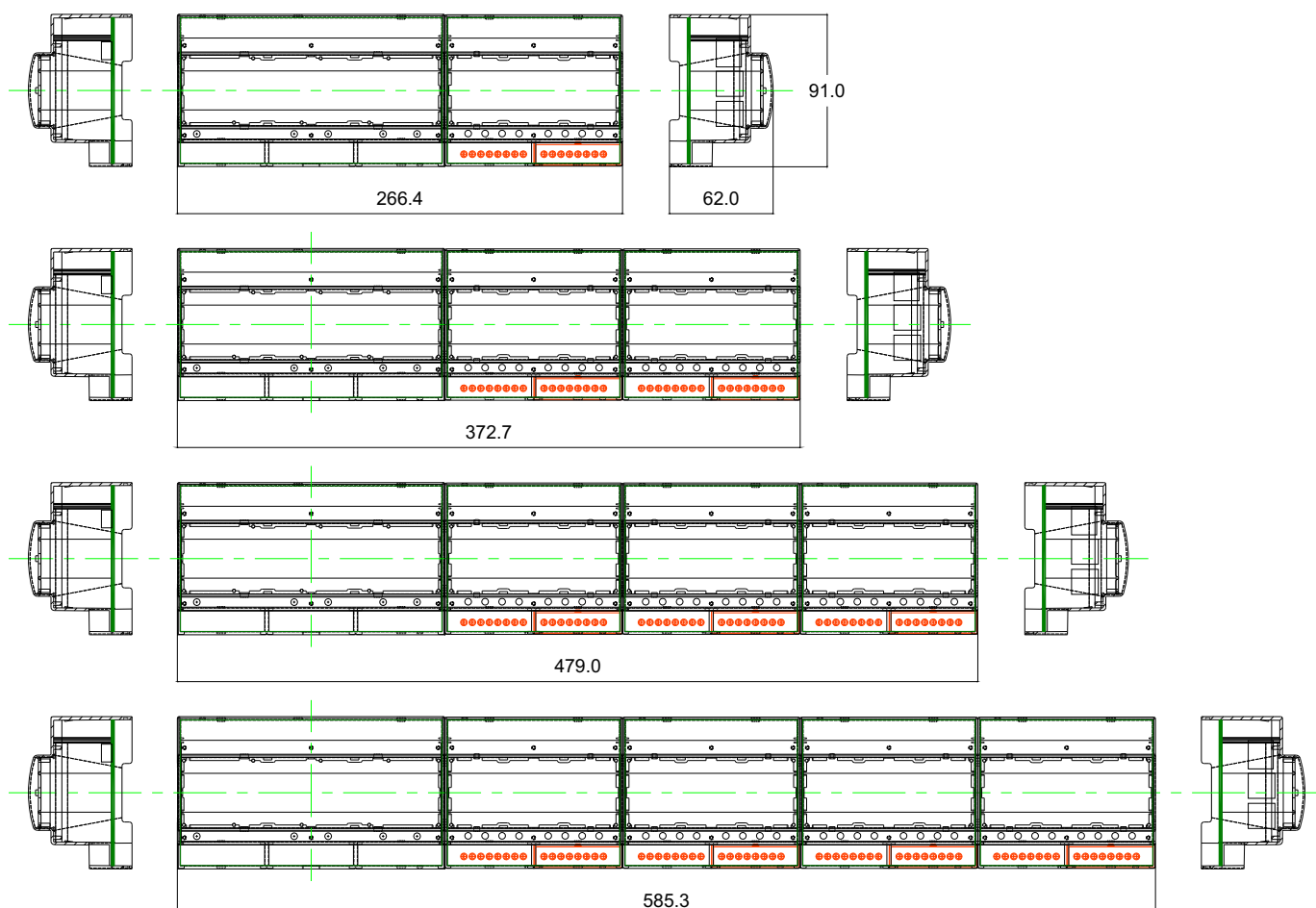
### Technical specifications

Power supply:	24Vdc $\pm$ 10%, 20VA
Input:	From 8 to 32 serial lines in current loop
Communication ports and protocols:	1 serial line RS232 SEGI protocol 1 serial line RS232 SEGI protocol/ selectable Modbus RTU 1 serial line RS485 Modbus RTU protocol 1 serial line RS485 SEGI protocol/ selectable Modbus RTU
Network port:	1 ethernet 10/100/1000 port Modbus TCP-IP protocol

### Mechanical features

Case:	Plastic container with DIN bar mounting
Protection:	IP20
Weight:	450g ....1Kg respectively in the 8 and 32 channels configuration
Room temperature:	-20 $\div$ +55 °C

### Dimensions [mm]





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