

FEATURES

AC line input: 230, 120 or 24 Vac
Double output with galvanic isolation
Power supply module for transmitters, conditioners and interface units
Conform to EMC and "safety" standards - CE mark
Low cost

APPLICATIONS

AC line powering for analog modules in:
- Process control
- Automation systems

**GENERAL INFORMATION**

The DAT 411 is a power supply unit designed to power the DATEXEL analog modules, so making easier their employment . This module accepts as input the AC line (230, 120 or 24 Vac) and supply two separate output voltages of 20 Vdc @ 30 mA each approximately. These outputs are capable to power two separate analog conditioners enabling galvanic isolation between them. The "Load Characteristic" of the device is illustrated on the rear page. A version with regulated outputs is also available (DAT411R). The device is available in a rugged plastic case suitable for direct mounting on DIN rails complying with DIN 46277-1& DIN 46277-3 standards.

TECHNICAL SPECIFICATIONS (Typical @ 25°C and in the nominal conditions)**Input**

Input voltage 230, 120 or 24 Vac $\pm$ 10 % @ 50-60 Hz

Output

Output 1 20 Vdc @ 30 mA not regulated

Output 2 20 Vdc @ 30 mA not regulated

Note: For more details on the output characteristics see the apposite figure on the rear page. A version with regulated outputs is available (DAT411R).

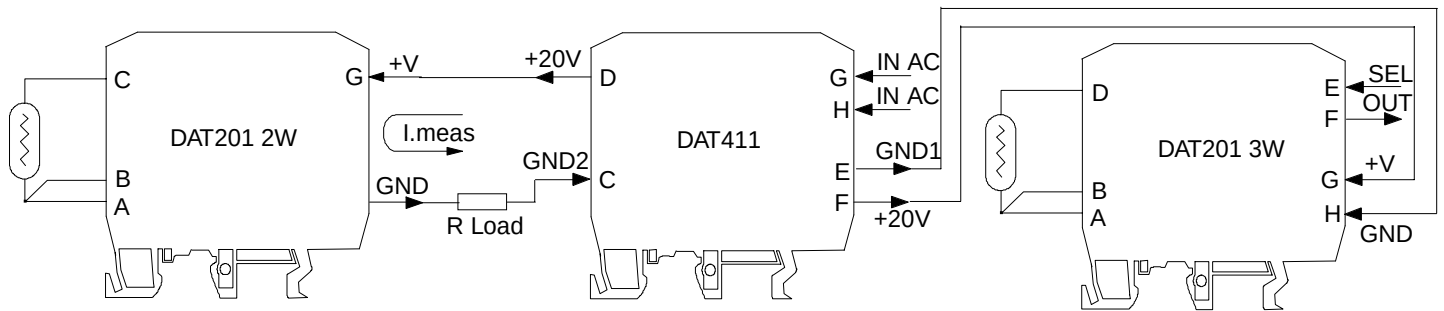
Electromagnetic Compatibility
Safety Conformity

According to EN50081-2 and EN50082-1
According to EN61010-1

Physical - environmental characteristics

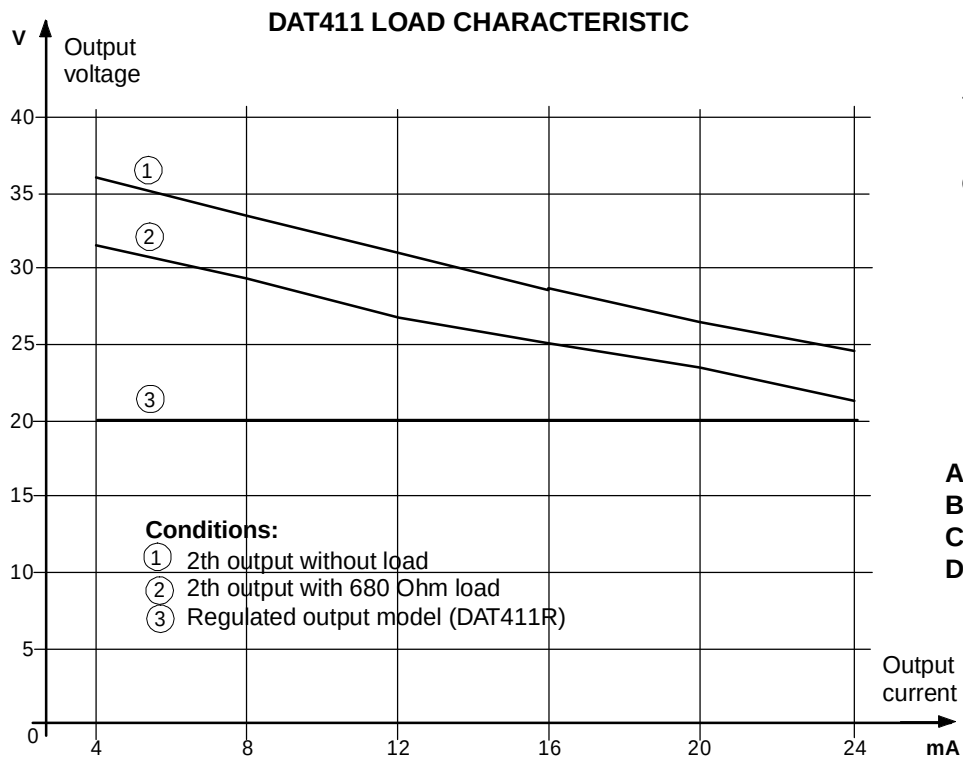
Operating temperature -20 ÷ 60 °C
Storage temperature -40 ÷ 100 °C
Relative humidity (without condensing) 0 ÷ 90 %
Weight 130 g.

USING DAT 411 WITH ANALOG CONDITIONERS

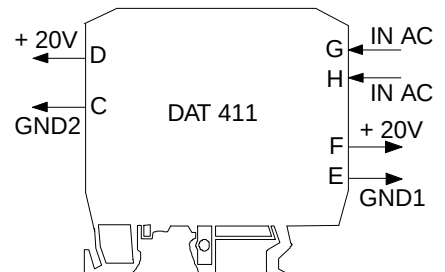


OPERATING INSTRUCTIONS

The AC line voltage must be connected between terminals G and H. Output 1 is available between terminals E (-) and F (+), while output 2 is available between terminals D(+) and C(-). Each output supplies a continuous voltage of about 20 Vdc @ 30 mA. Every output is galvanically isolated from the input and the other output. In the figure above is illustrated a "typical application" of the DAT 411. In the "DAT411 Load Characteristic" the behaviour of the output voltage versus the output current is illustrated to permit a more precise and reliable utilization of the device.



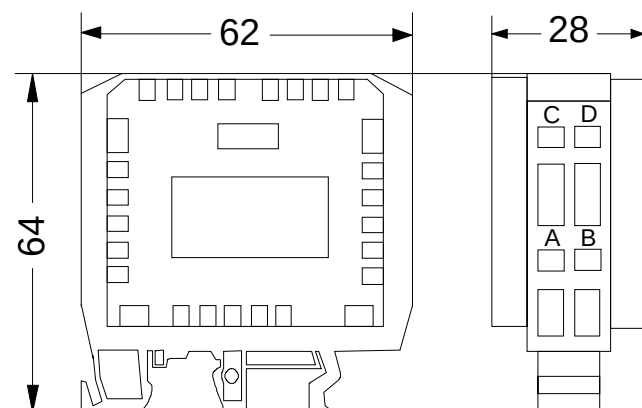
WIRING DIAGRAM



TERMINAL ASSIGNMENTS

A = NC	E = GND 1
B = NC	F = +20 Vout
C = GND 2	G = IN AC
D = + 20 Vout	H = IN AC

PHYSICAL SIZE (All measures are in mm.)



HOW TO ORDER:

DAT 411R - 230

Put R for Regulated
output version

AC line voltage:
230 = 230 Vac
120 = 120 Vac
24 = 24 Vac

EDIT.12.00-REV.00