

#### 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

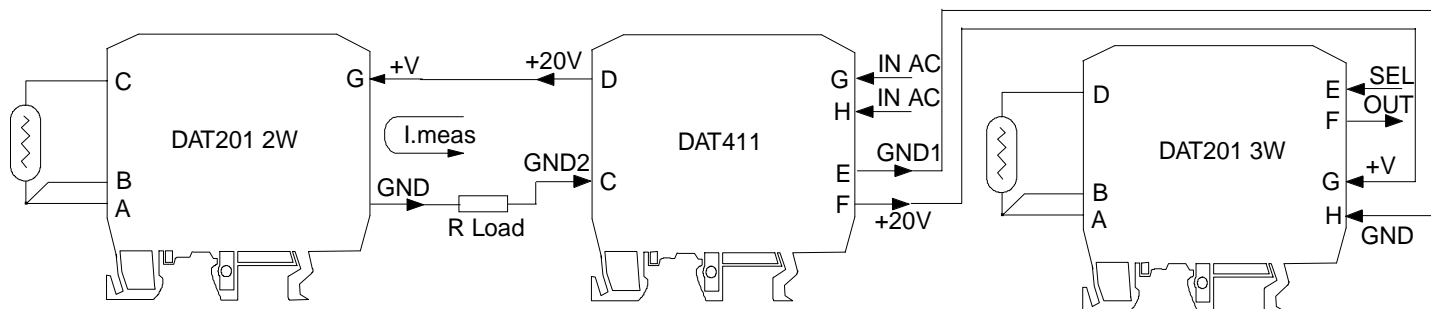
Note: For more details on the output characteristics see the apposite figure on the rear page. A version with regulated outputs is available (DAT411R).

Electromagnetic Compatibility According to EN50081-2 and EN50082-1  
Safety Conformity According to EN61010-1

##### Physical - environmental characteristics

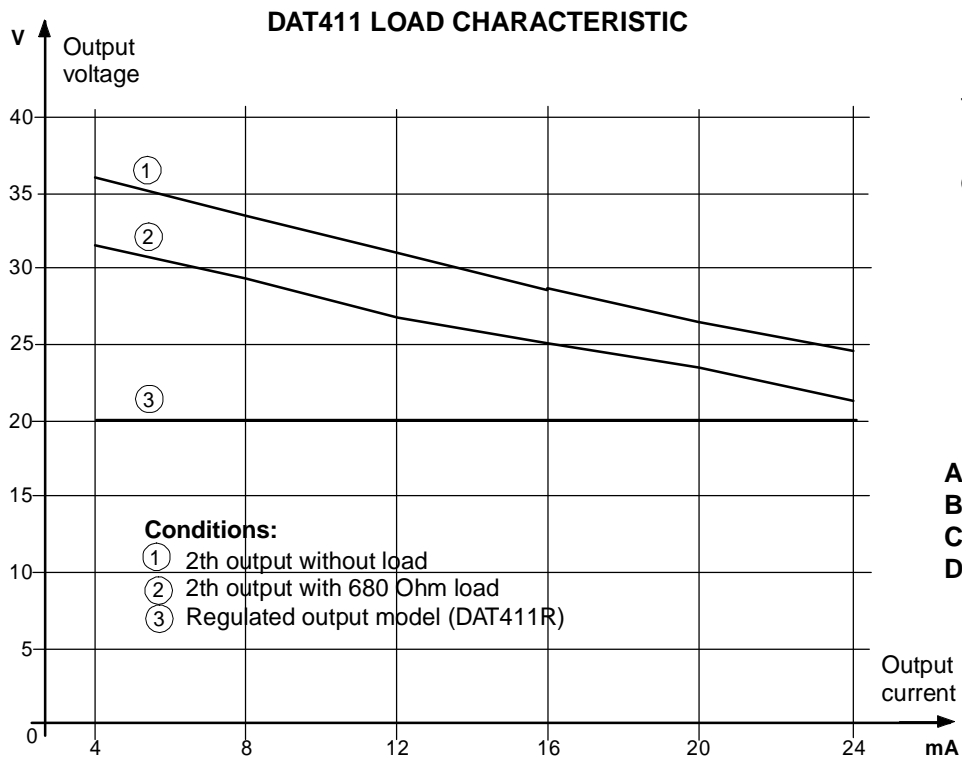
Operating temperature  $-20 \div 60$  °C  
Storage temperature  $-40 \div 100$  °C  
Relative humidity (without condensing)  $0 \div 90$  %  
Weight 130 g.

## USING DAT 411 WITH ANALOG CONDITIONERS

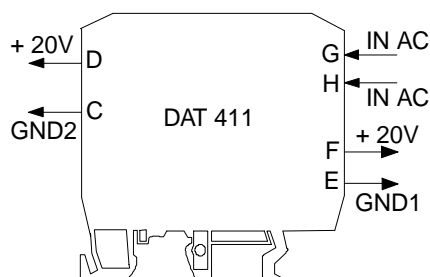


## OPERATING INSTRUCTIONS

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.



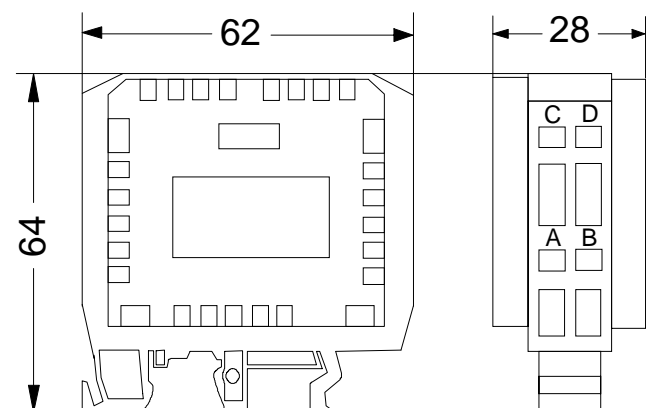
### WIRING DIAGRAM



### TERMINAL ASSIGNMENTS

- |                      |                     |
|----------------------|---------------------|
| <b>A = NC</b>        | <b>E = GND 1</b>    |
| <b>B = NC</b>        | <b>F = +20 Vout</b> |
| <b>C = GND 2</b>     | <b>G = IN AC</b>    |
| <b>D = + 20 Vout</b> | <b>H = IN AC</b>    |

### 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