

## SYSTEM PROTECTION AND AC/DC CONVERSION IN A SINGLE UNIT

### Maximum protection and safety for the wind turbine and inverter

The INGECON® μWIND provides overpower and overvoltage protection for the inverter whilst also protecting the wind turbine against overspeeding through a PWM progressive braking system with a high capacity discharge resistor. It extends the wind turbine operating range to include high wind speeds, for increased productivity.

It is also equipped with interlocking contactors to short-circuit and block the wind turbine.

### Greater control features

Remote control and additional monitoring of meteorological variables. Measurement of the wind turbine speed of rotation. Remote operation of the wind turbine start-stop system.

### Suitable for wind turbines with AC or DC outputs

AC/DC conversion between the wind turbine output and the inverter input. Also valid for DC wind turbines.

#### PROTECTIONS

- Against overvoltage.
- Against overspeeding.
- Against power boosts.
- Braking system and positive latching (HW resistor).

#### OPTIONAL

- Two 0-24 V digital inputs.
- Two digital outputs, of type NO potential free contact and with an opening capacity of 250 V/2 A.

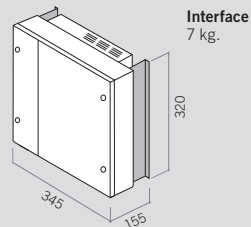


Interface	
<b>Input values</b>	
Power range	2.5 - 18 kW
Maximum AC voltage	450 Vrms
Maximum AC current	23 Arms
Maximum DC voltage	600 V
Maximum DC current	30 A
Wind turbine speed capture range <sup>(1)</sup>	0 - 600 rpm
<b>Analog inputs</b>	
Number	2
Type	0 - 10 V / 0 - 20 mA (configurable)
<b>General information</b>	
Communication system	RS-485 y bus CAN
Remote control system	Through Ethernet and PC application

**Notes:** <sup>(1)</sup> The maximum limit will depend on the electrical characteristics of the wind turbine.

**Compliance with standards:** EN 50178, EN61000-6-2, EN61000-6-3, CE Mark.

**Size and weight (mm)**



**Wiring diagram**

