Smart Sensing

SENSOVANT

wind measurement

PA2 & PRV wind sensors

CUP ANEMOMETER

& POTENTIOMETER WINDVANE

LIGHTWEIGHT, HIGH QUALITY

The PA2 series cup anemometers and PRV potentiometer windvane from Wittich & Visser are light weight instruments for measuring wind speed and wind direction. Both sensors are ideal for agro-meteorology, greenhouse automation, HVAC, safety guard regulations, etc.

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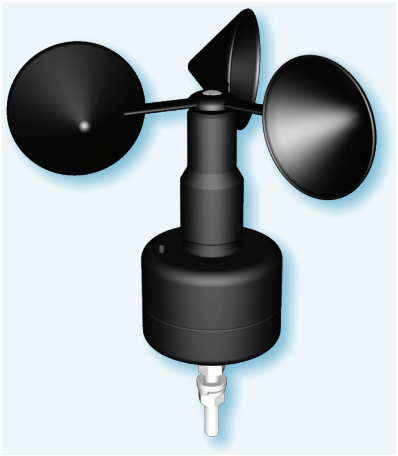
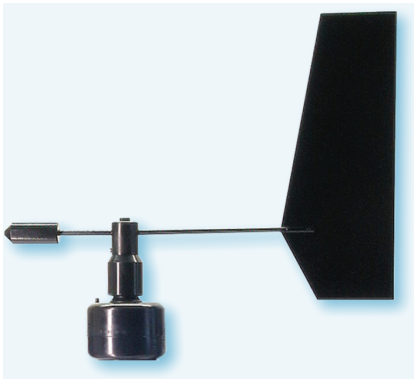
cup anemometer PA2



Light weight cup anemometer based on Hall effect principle. Measuring range 0..60 m/s with a treshold of 0,5 m/s. Two pulses per rotation and 67 pulses at 30 m/s. The PA2 is an affordable high quality cup anemometer with ceramic magnets and stainless steel bearings and mounting hardware.

This cup anemometer is also available with 2-wire 4..20 mA output (PA2-C).

wind vane PRV



Light weight, long life potentiometer vane. Mechanical angle 360° without stop. Electrical angle 350°±3°, threshold is between 1.2 and 1.5 m/s. The PRV is an affordable high quality wind vane with oil bronze bearings and stainless steel mounting hardware.

This wind vane is also available with 2-wire 4..20 mA output (PRV-C).

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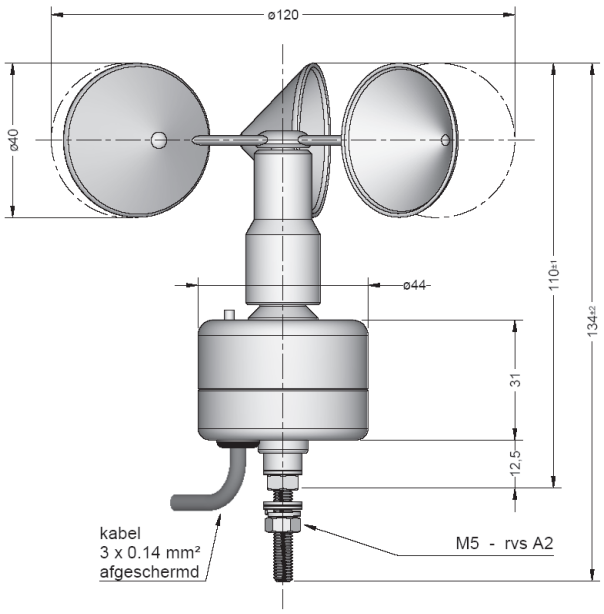
TECHNICAL SPECIFICATIONSPA2

ANEMOMETER	
measuring principle	Hall effect with magnets
air velocity range	0..60 m/s
treshold	0,5 m/s
response lenght	2,2 m
operating temperature	-30..+70°C
pulses	2 per rotation
frequency	67 Hz at 30 m/s
output PA2-C	4..20 mA
power supply PA2	4,5..30 VDC
power supply PA2-C	10..30 VDC
MATERIAL	
housing	POM, black
ball bearings	stainless steel
mounting hardware	stainless steel
magnets	ceramic
cups	polycarbonate

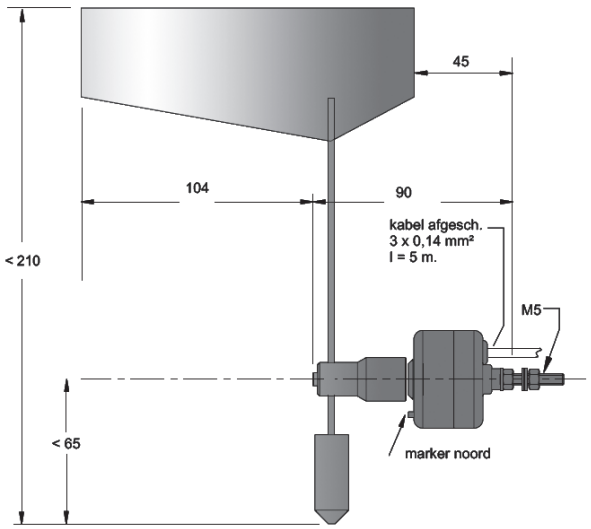
TECHNICAL SPECIFICATIONSPRV

POTENTIOMETER	
life expectatio	> 20 x 10 ^{6} rotations
electrical angle	350 ± 3°
mechanical angle	360° without stop
damping ratio	0,35
treshold	1,2..1,5 m/s
linearity	1 %
resistance value	5 kOhm +/-10 %
output PRV-C	4..20 mA
power supply PRV-C	10..30 VDC
operating temperature	-30..+80°C
temperature coefficient	± 200 ppm/°C
MATERIAL	
housing	POM, black
vane blade	painted glass fibre epoxy
vane stem and balance weight	painted brass
bearings	oil bronze
mounting hardware	stainless steel

DRAW ING PA2



DRAW ING PRV



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