



DESCRIPTION

The wind speed sensor type FT4035 serves for transmission of electrically measured values of the wind speed. It is designed for operation in meteorology and environmental protection, e.g. automatic weather stations, at airports, on research vessels, at industrial sites, for mobile measuring systems etc.

The instrument's rugged construction and its dust- and water repellent surface, as well as the optional high performance heating enable heavy duty applications like wind energy measurement or operation under severe climatic conditions.

Thanks to various simultaneously usable outputs and further options it is suitable for a wide range of measuring tasks (refer to "ordering code").

TECHNICAL DATA

Measuring range	0...70 m/s (0...60 m/s with analogue outputs)
Max. load	100 m/s
Starting threshold	< 0.3 m/s (standard version) 0.21 m/s (sensitive version)
Response length at $v = 5$ m/s	< 2.5 m (standard version) 2.0 m (sensitive version)
Accuracy	+/-0.5 m/s; from 10 m/s 2% of range
Compliances	WMO Guide No. 8/7th ed. VDI 3786, T.2, 12/2000 MEASNET
Electronics Supply	FT4035.0000: 10...30 VDC; < 5 mA at 12 V FT4035.1000: 10...30 VDC; 25...65 mA at 12 V
Heating:	10...30 VDC; approx. 7 W

High performance heating:	24 VDC; approx. 60 W
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OUTPUT

digital	0...70 m/s = 0...700Hz, Open Collector
additionally, for version FT4035.1	Analogue 0...60 m/s = 0...1 V 0...60 m/s = 0...20 mA 0...60 m/s = 4...20 mA
Admissible load	approx. 400 Ω
Admissible ambient temperature	-25...+80 °C; -40...+80 °C with high performance heating
Protection class	IP 65, when operated upright
Housing material	Aluminum alloy
Heating	controlled by thermostat, max. 7 W
High perf. heating	max. 60 W
Connection	12 p., plug and socket, water and dust proof according to IP 67
Measuring cable	LiY(C)Y 0.25 mm, (not included)

DIMENSIONS

Length	approx. 275 mm
Cup assembly \varnothing	approx. 224 mm
max. housing- \varnothing	80 mm
Pivot \varnothing	34 x 40 mm
Weight:	approx. 0.685 kg

ORDERING CODE

Wind speed sensor, Frequency output 0...700 Hz, Open Collector; with built-in	FT4035.0000
As FT4035.0000, but with additional analogue outputs, 0...20 mA, 4...20 mA and 0...1 V, corresponding 0...60 m/s	FT4035.1000
As FT4035.0000, but with high performance heating	FT4035.0100

FT4035 Wind Speed Sensor

As FT4035.1000, but with high performance heating	FT4035.1100
Sensitive version: As above mentioned types but with supplement	FT-----1