Anemometer Thies Compact

S12100H

Anemometer Thies Compact

Order number
S12100H

Availability
Usually on stock

Opto-electronic wind speed sensor

Ammonit Measurement GmbH
Measuring wind and solar power

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Description

Ammonit's standard is heated version. It can be used for both heated and non-heated system.

- Opto-electronic wind speed sensor
- "Low Power" – Frequency output signal
- Range 0.5 … 50 m/s
- Resolution < 0.1 m/s

Specifications

Anemometer Thies Compact

General Information

Order Number	S12100H

Measurement Principle

Opto-electronic (slotted disc)

Accuracy

Accuracy	± 3 % of meas. value, however ≥ 0.5 m/s
Resolution	< 0.1 m/s
Starting Velocity	0.5 m/s

Operating Range

Measurement Range	0 … 50 m/s
Survival Wind Speed	max. 80 m/s (30 min)
Ambient Temperature	-40 … +70 °C

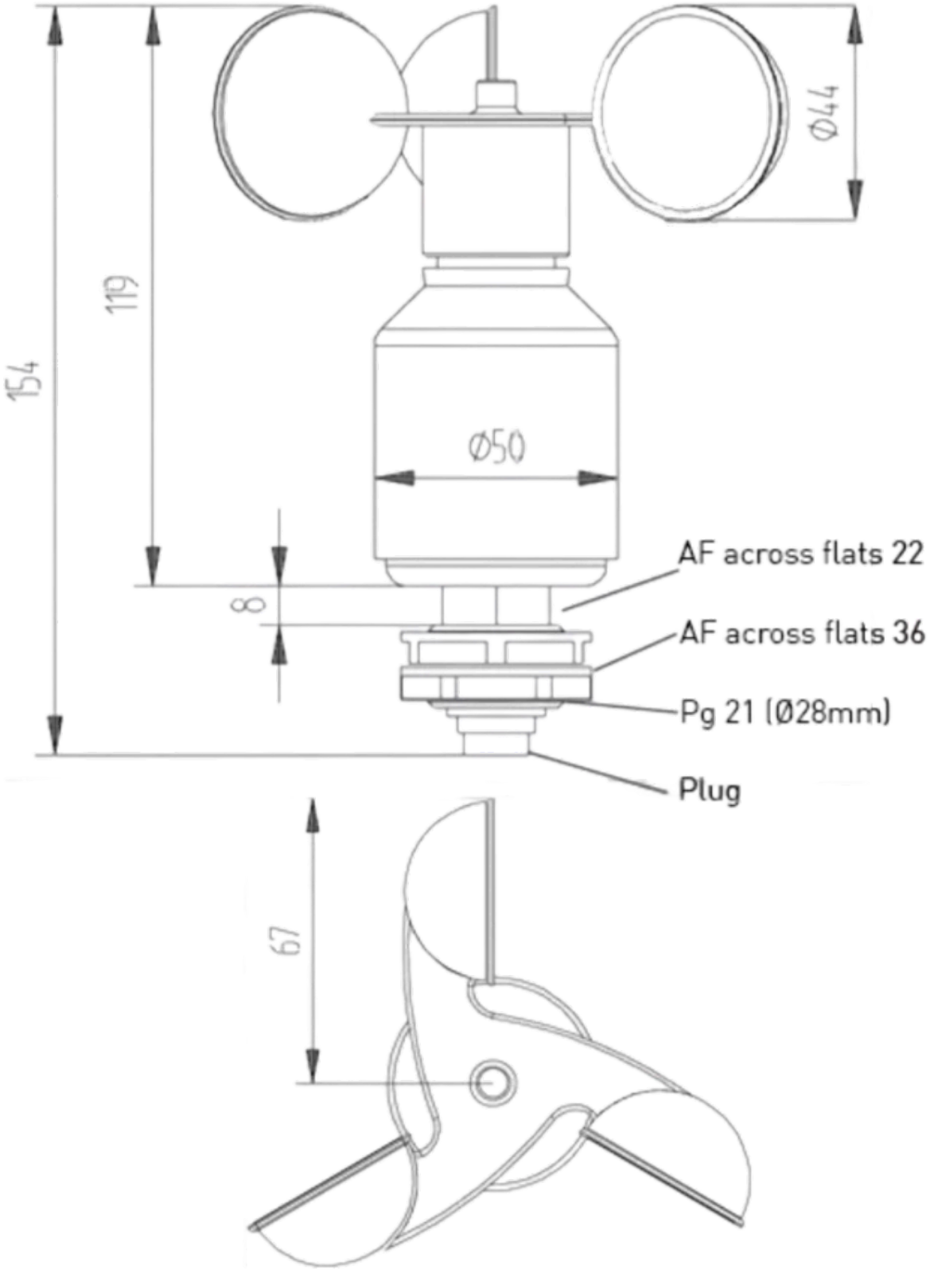
Electrical Data

Electrical Supply	9 … 30 V DC
Electrical Supply for Heating	24 V AC/DC @ 20 W

General

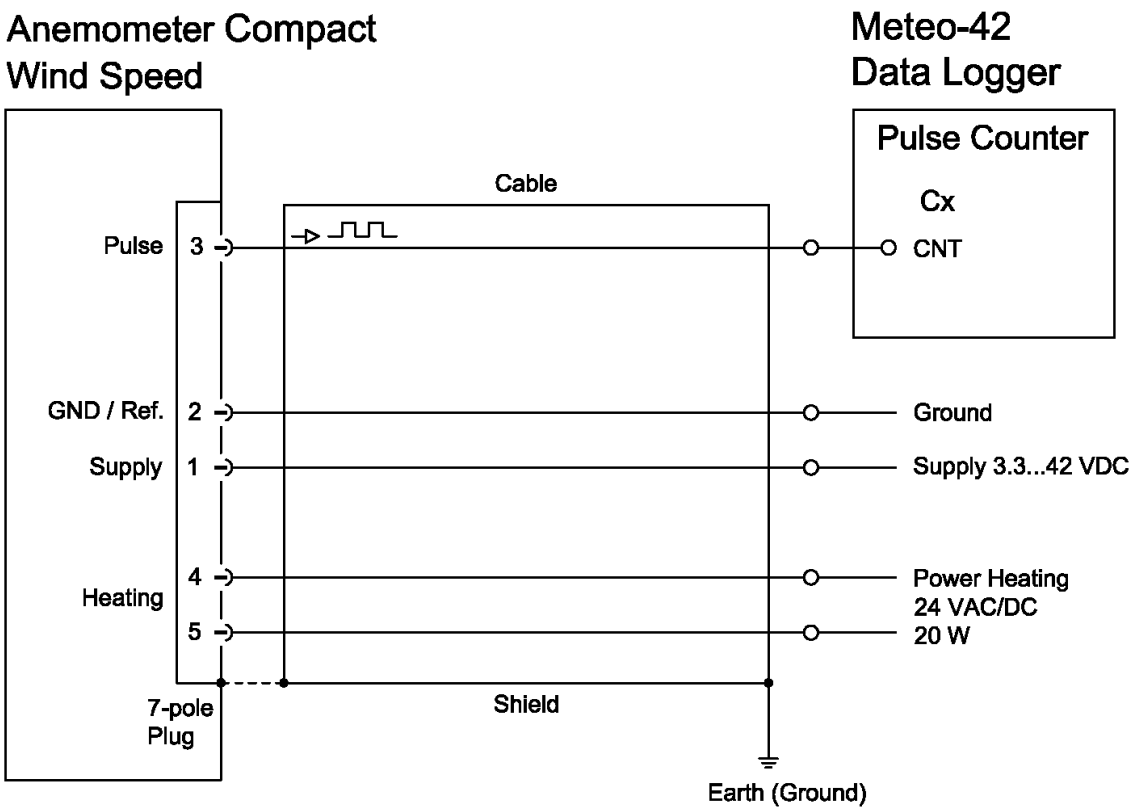
Connection	7-pole plug-connection
Mounting	For example, onto mast tube with receptable thread Pg21 or boring Ø 29 mm
Dimensions	155 x Ø 134 mm
Weight	approx. 0.7 kg
Material	Housing: Aluminium Cup star: Synthetic with fibre glass
Type of Ball Bearings	Metallic ball bearings
Protection	IP 55
Manufacturer	Thies

Dimensional drawing

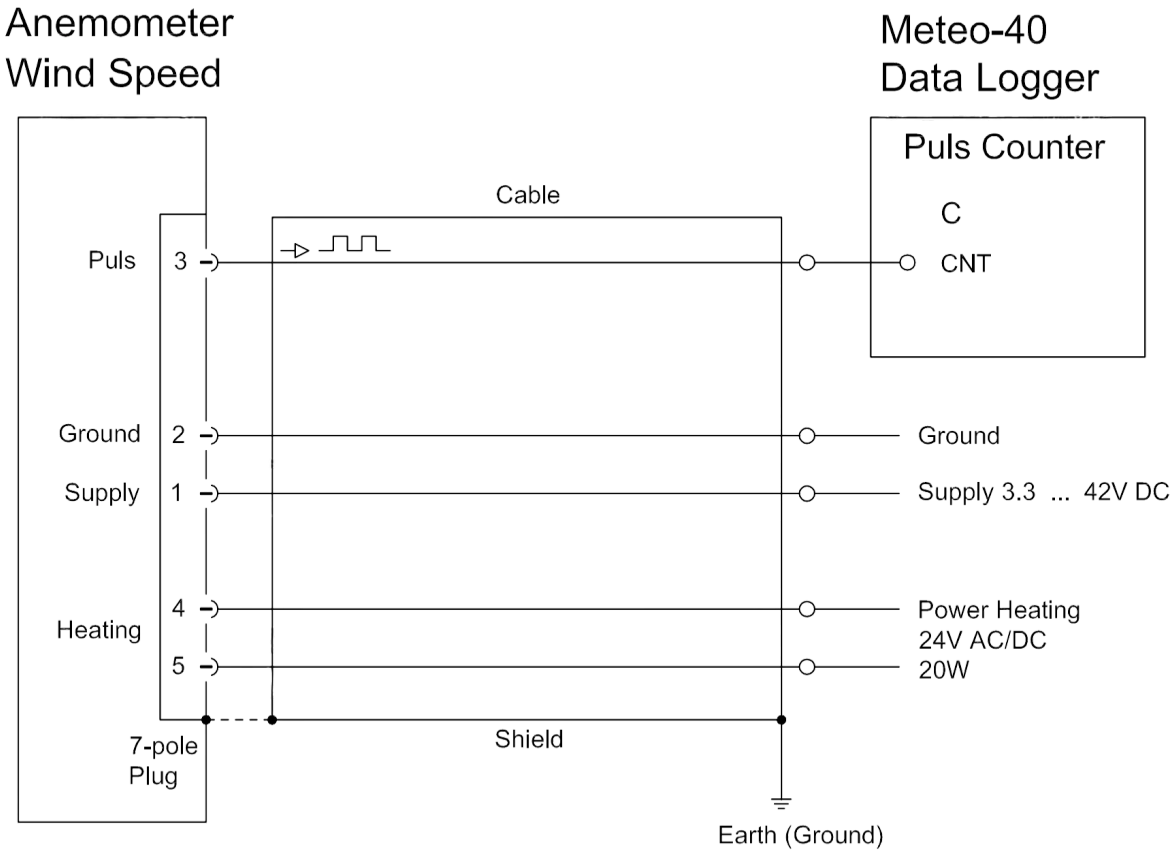


Sensor connection diagram

Sensor connection diagram to Ammonit Meteo-42 Data Logger



Sensor connection diagram to Ammonit Meteo-40 Data Logger



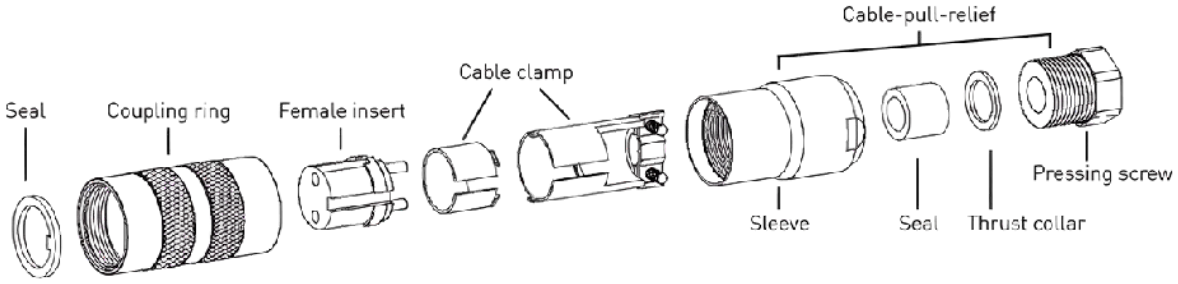
Sensor	Plug Pin No.	Ammonit Cable Wire Colour	Meteo-40	Supply Sensor
Wind speed Pulse output	3	white	CNT	
Supply	1	red		9 … 36 V*
Ground	2	black		Main Ground
Heating	4	orange, orange		24 V AC/DC
	5	violet, violet		

*** Supply voltage for usage with Meteo-40 data loggers.**
Cable type without heating wires: LiYCY 3 x 0.25 mm²
Cable type with heating wires: LiYCY 7 x 0.25 mm²
Connect the shield logger-sided to Ground (GND)

Instructions

Coupling socket, Type: Binder, Serial 423, EMC with cable clamp

Exploded View



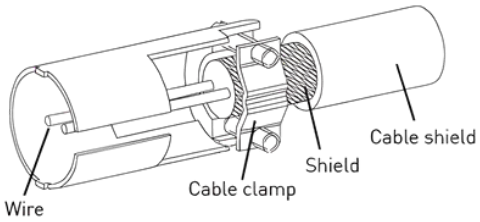
Cable Connection: WITH Cable Shield

Steps:

1. Stringing parts on cable according to plan above.
2. Stripping cable sheath 20 mm
   Cutting uncovered shield 15 mm
   Stripping wire 5 mm

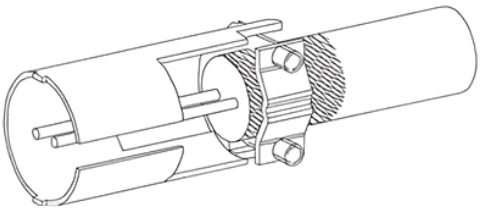
A) Putting shrink hose or insulation tape between wire and shield.

A)



B) If cable diameter permits, put the shield backward on the cable sheath.

B)



3. Soldering wire to the insert, positioning shield in cable clamp.
4. Screwing-on cable clamp.
5. Assembling remaining parts according to plan above.
6. Tightening pull-relief of cable by screw-wrench (SW 16 and 17).

Cable Connection: WITHOUT Cable Shield

Coupling socket, Type: Binder, Serial 423, EMC with cable clamp

Steps:

1. Stringing parts on cable according to plan above.
2. Stripping cable sheath 20 mm
3. Cutting uncovered shield 20 mm
4. Stripping wire 5 mm
5. Soldering wire to the insert
6. Positioning shield in cable clamp
7. Screwing-on cable clamp
8. Assembling remaining parts according to plan above
9. Tightening pull-relief of cable by screw-wrench (SW 16 and 17)