

# Wind Anemometer WS-S-CL Marine Model



- ships, tug boats, oil rafts, seaports,
- power stations, meteorologic station,
- tanks, towers, airports, cranes etc.
- non corrosion materials  
(stainless steel, polycarbonate)

# Wind Anemometer WS-S-CL Marine Model

## Description

WS-S-CL-MM (Marine Model) is an integrated wind anemometer equipped with current loop outputs. It can be directly connected to meters, measurement computers, weather stations, data loggers or plotters which have standard current loop terminals. The sensors are closely fitted to the transmitter unit and it can be mounted as such on the top of the instrumentation mast.

Transmitter unit is equipped non isolated current loop. Isolated loop is optional module.

Transmitter is protected against lightning with varistors.

All materials are selected for marine use.

## TECHNICAL DATA :

Anemometer Type:	: WS-S-CL-MM (Marine Model)
Starting treshold	: 0.7 m/s
Measurement range	: 0.8...60 m/s, max. 60m/s
Accuracy	: (range 0.8...60 m/s)
wind speed up to 10 m/s	: ± 0.5 m/s
wind speed over 10 m/s	: error < 3%
Current Loop output	: 0 to 20 mA or 4 to 20 mA (jumper selectable)
Operating temp.	: -40...+55 °C (-40...+131 °F)
Storage temperature	: -60...+65 °C (-76...+149 °F)
Ball bearing	: stainless St ball bearing,
Materials	: Polycarbonate/stainless steel (body of anemometer)
Cups	: polycarbonate
Case	: polycarbonate case IP66/67
Case dimension	: 80*82*56 mm3
Dimensions	: ø170 * 300 mm
Operating voltage	: 20...28 VDC, 5 W,
Heating	: 3 W beside bearing,
Transmitter cable e.g.	: 2 *2 ' 0,25 mm2,
Normal instrumentation cable,	: 2 pair
OPTIONS:	
Current isolation	: EM-M14, 4-20mA / 4-20mA
Cabling	: Instrumentation cable 2*2*0,25mm2+1

Serial No. \_\_\_\_\_ Date of delivery: \_\_\_\_\_

QC: \_\_\_\_\_

# Wind Anemometer WS-S-CL Marine Model

## How to order

**WS can be equipped with several options and measurement scales:**

**Transmitter    WS-S-CL-MM (anemometer)**

Wind Speed Transmitter, 6 pulse / rev. with heating (24 VDC, 3 W)

**Scales**

-60	0 to 60 m/s
Scale options:	
-30	0 to 30 m/s
-40	0 to 40 m/s / 80 knots
-160 KMPH	0 to 160 km/h / 100 mph.
-XX YYY	0 to max.value XX of speed quality YYY

**Special outputs: ( calibrated for specified scales, non isolated )**

-420	Current loop output for meter or logic, standard 4 to 20 mA, factory default
-020	Current loop output for meter or logic, standard 0 to 20 mA,
-EMM-14	Current Loop isolator for isolated signal 4 to 20 mA

**Power supply:**

-24	24 VDC
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**For example:    WS-S-CL-MM-60-420-24**

Anemometer	WS-S-CL-MM (Weather Station-wind Speed-Current Loop output)
- 60	calibrated for 60 m/s,
- 420	Current loop output for meter or logic, standard 4 to 20 mA, non isolated