Class A AIS and DSC Antenna Combiner

High-performance proFIL™ technology combines separate VHF DSC (ch70 digital selective call) receiver antenna and AIS (automatic identification system) transceiver antenna into the same antenna without compromising safety and performance. By using a common VHF antenna for both AIS transceiver and DSC receiver, cabling is reduced and less space is occupied at ship’s topside. Installation of AIS equipment can be instantaneous.

Compared to IMO recommendations, high isolation proFIL™ technology separates two radios virtually by over 200 meters instead of recommended 5 meters. Its low loss technology on all ports does not disturb the sensitivity of the communication equipment.

Save space, simplify structures
- enables fast installation of AIS equipment
- works simultaneously with DSC reception and AIS transmission
- high isolation
- robust design
- can be used with proISO 1001 to prevent ground loops

Electromagnetic modelling services
fine-tunes performance

Use our advanced proEMS™ electromagnetical simulation, modelling, analysis and measurement services to create a complete 3D-electromagnetic environment of the ships’ external structures. This way the optimum location for each antenna with the least interference can be found and verified. The proEMS™ services are useful for any size of boat or ship and will be tailored for each customer separately.
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Technical features

Filter type:
High isolation duplex filter

RF performance:
DSC: 156.525MHz (ch70)
(RL: >20 dB, Loss: <1.0dB)
AIS: 161MHz - 163MHz
(RL: >20 dB, Loss: <1.0dB)
ANT: 155MHz - 163MHz
(50Ω)
Isolation between output ports:
>60dB

Powerhandling:
Continuous total 100W

Mounting:
Wall mount with built in flanges

Connectors:
N-type female at each port

Environmental:
Operating temp: -30° - +60°
Non condensing

Material:
Painted aluminium

Dimensions:
Height: 50 mm
Width: 200 mm
Depth: 184 mm
Weight: 1226 g

Order code:
FIL4201: proFIL 4201 Class A AIS and DSC Antenna Combiner

Delivery time:
From stock (with reservations)

Connection example

Vessel's hull / mast
DSC (ch70)
VHF RX
AIS
Class A / Class B

antenna
grounding
cable inlet

proFIL™
proISO™

(optional)