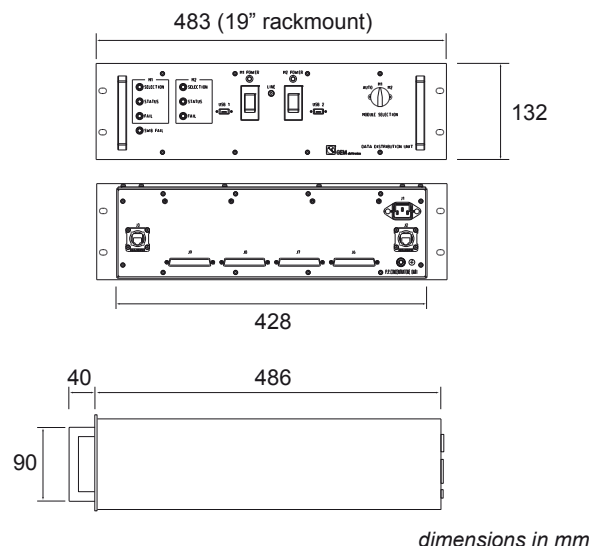# DATA DISTRIBUTION UNIT: IU80-25

The IU80-25 unit provides sensor data integration and distribution over a network. It is equipped with a number of ports, which can be connected with a wide range of marine navigation sensors compliant with IMO interface regulation IEC-61162. The embedded CPU decodes all messages coming from and going to ship sensors, encapsulates them into Ethernet packets and deliver over the IBS LAN.

The unit also provides real-time management of sensor performance level degradation and automatic selection for diffusion of best-of-all in case of multiple data sources.

The unit is fully redundant, with internal and automatic change-over in case of failure of one of modules. It is also provided a manual override for module selection.

dimensions in mm

Main features:

• n.8 bi-directional serial ports, configurable RS232/RS422, compliant with IEC-61162-1
• n.5 bi-directional serial ports, RS422, compliant with IEC-61162-2 (high-speed)
• fully redundant architecture (duplicate computer, power supply, digital interfaces) with automatic change-over in case of failure
• n.2 single-board computer equipped with Windows 7 Embedded O.S.
• n.2 100/1000 MB Ethernet ports for connection with IBS LAN, compliant with IEC-61162-4
• front panel for local diagnosis and manual override of redundancy management
• unit configuration by a standard browser
• n.2 USB port
• 24VDC supply, consumption less than 2A
• rugged enclosure for 19" rack mount (3U unit height)
• environmental conditions compliant with IEC-60945, protected environment

© February 10, 2014