ECO8
ShaPoLi
User friendly system
Comply with EEXI regulations

- **Measure, Monitoring and Paperless Recording Device**
- **Marine Application Certified by:**

ECO 8 ShaPoLi

ECO ShaPoLi is an innovative and user friendly system that allows ships to comply with upcoming EEXI regulations, quickly and simply.

The display and recording hardware that we are using for ShaPoLi has been well proven on ships, having been installed on more than 100 vessels since 2010 existing and new-building.

Our data recorder measures , recalculates, controls and displays also in hazardous areas as in various marine systems and has been certified by class .

Our team has reprogrammed the software in order to comply with the new IMO Resolution MEPC 335 (767) for Shaft Power Limitation (ShaPoLi) and named it EDIT ECO 8 (ShaPoLi).
That's why the EDIT ECO ShaPoLi is the most cost - effective, secure, simple solution with the most advantages among the engine power limitation systems.

The system software and functionality provides full compliance with MEPC 335(76) and meets the requirements of IACS and Flag State requirements for EEXI compliance.

EDIT ECO ShaPoLi can be supplied as a stand alone system, connected to an existing installed shaft power meter or can be supplied in combination with a TSX5 shaft power meter from Trelleborg if there is no shaft power meter onboard.

Installation will be carried out by EDIT certified engineers and can be done with the ship in operation or dry dock.
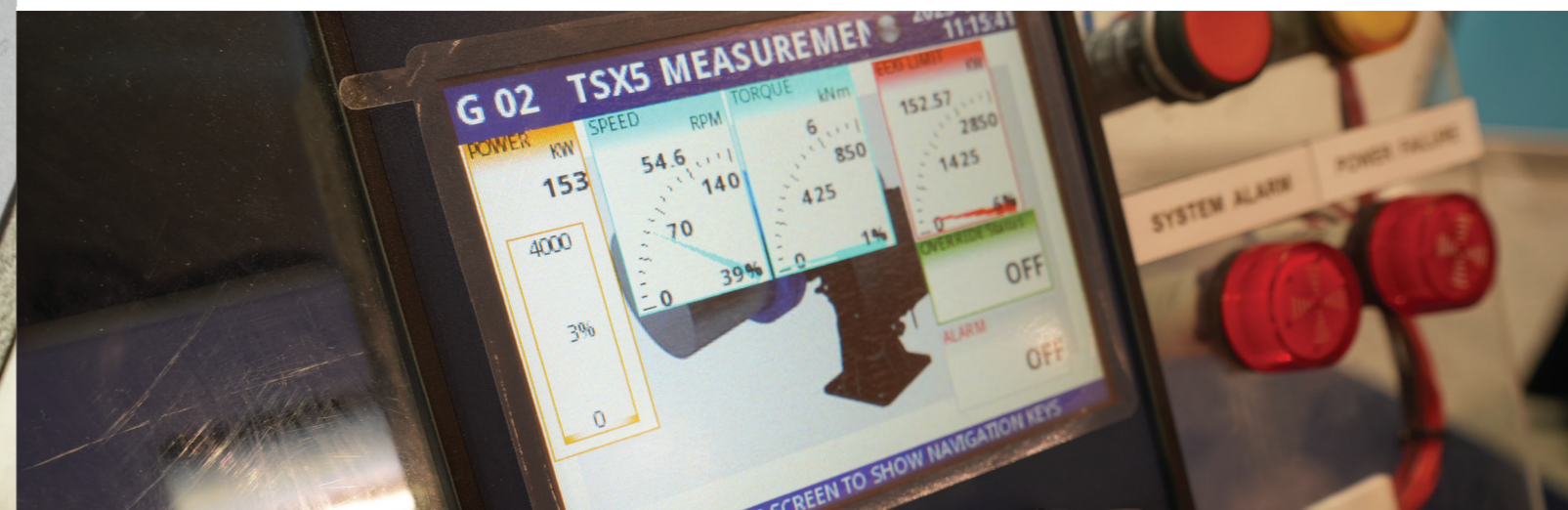
▉ Product Advantages

- Quicker and easier installation and the lowest cost than any other EPL / ShaPoLi solutions.
- Fully compliant with IACS and Flag State requirement for EEXI.
- The smallest display footprint for fitting in the bridge console in EPL / ShaPoLi solutions, starting with dimensions from 96 mm x 96 mm x 100 mm.
- Plug and play installation, no need for service engineer in the future .
- No annual fees .
- Only one component , no need for other panels, for compnents and spare parts.
- Colour Touch Screen LCD Monitor up to 5.7''.
- Data recording memory card 4GB, recording data from 1 second intervals and for more than 12 months until 7 years
- Auto starting data logging after 10 rpm.
- Any time direct access to full engine power protected with password / override .
- Directly connected with Shaft Power Meter.
- Auto send reporting of data with email or messages in mobile.
- Easy to connect with shipping offices for realtime measuments
- More than 8 different measurements formats, visualisation as digits, graphs, barographs, gauges, as well pictures with HTML5 and widgets.
- With 4 digital output (pre-alarm, alarm, AMS, S-VDR)
- Extra Inputs for others applications, like flowmeter of M/E etc.
- Communications for WEB server with Ethernet, isolated RS 485, RS 232, USB Host.
- DAQ Manager / Software free of charge
- PC keyboard and mouse operation.
- A transparent door with IP 54 rate, key and transparent box IP65

▉ Construction

Hardware input/output

The biggest advantage of all devices from the MultiCon line is a big number of built-in inputs / outputs accessible in one compact device. The most developed version **ECO-99** has up to 48 measurement or digital inputs and 60 virtual channels, whereas **ECO-141** has 50% more input / outputs and virtual channels.

Thanks to a well-thought-out module design you can choose among a wide range of cards and connect them to slots in the way you wish but you do not have to use all slots.
You can also decide on your own how to use virtual channels, if they are going to be used for direct measurement readings, mathematical functions, timers, profile creation, set points or virtual objects.

We offer the following cards:

Inputs:
- universal
- current
- thermocouple
- RTD
- NTC
- digital
- counters
- totalizer
- rate

outputs:
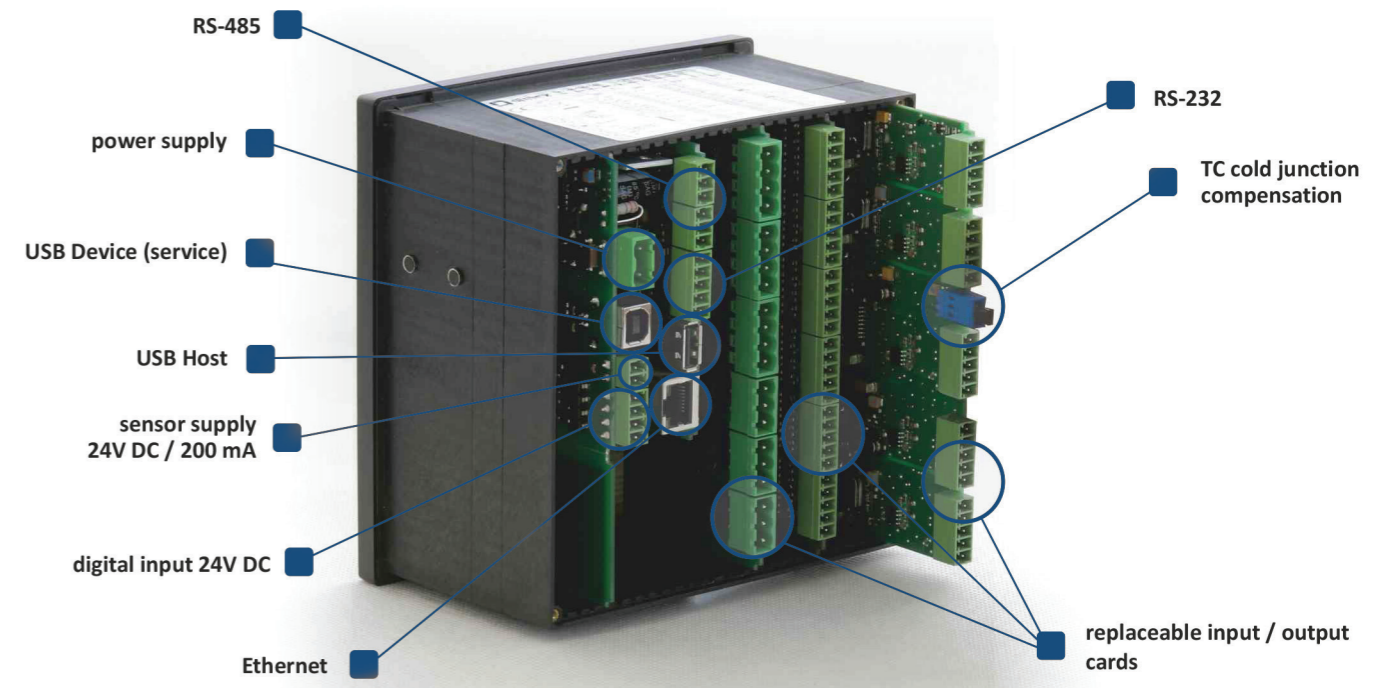- relay
- SSR
- current (4-20 mA) signals

communication:
- Ethernet
- RS-485
- RS-232
- USB Host

Should you need to update your application or add new functionalities in the future?

All you have to do is to send your device to an authorized distributor who will perform the changes you require.

Sample configuration

RS-485

power supply

USB Device (service)

USB Host

sensor supply 24V DC / 200 mA

digital input 24V DC

Ethernet

RS-232

TC cold junction compensation

replaceable input / output cards

Product Features

- Power Supply 24 V DC
- Shaft Power measurement (POWER, RPM, TORQUE & THRUST)
- Isolated inputs 4 - 20 mA (also optional with universal inputs and outputs)
- Extra connections analogue 4-20 mA for future systems like flowmeter, etc.
- Ethernet , RS 485, RS 232, USB HOST
- Limit Exceedance PRE - Alarming
- Main Alarm Limitation
- Digital output for AMS
- Digital output for S-VDR
- Override protected by password
- Automatic Event Logging (starting and sending)
- Each one unit / system has each unique "LICENCE KEY " for multilevel Access.

Data Recording, Monitoring & Alarms

- FOR GASES
- AIR CONDITION GAS INDICATION
- VAPOUR & OXYGEN MONITORING
- WIND SPEED
- IGS
- MANIFOLD PRESSURE MONITORING
- PAPERLESS DATA RECORDING FOR AUTOMATION SYSTEMS
- TEMPERATURES VACUUM PUMP
- DATA RECORDING FOR OCM 15 PPM

EDIT Automation, CERTIFIED based on the IACS Rec 172 EEXI regulations with which global shipping is required to comply with and come into force in 2023
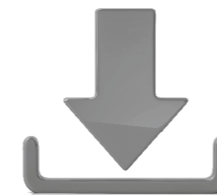
TYPE APPROVAL CERTIFICATE
1. ABS
2. BV
3. DNV
4. LLOYD'S REGISTER
5. RINA

CERTIFIED ALSO FOR INSTALLATION & APPROVED OMM BOOK
6. ClassNK
7. KOREAN REGISTER

Data Download

The recorder data can be downloaded from the internal memory in a way which suits you best. Use a USB flash drive or Ethernet which allows you to perform the task wherever you are. Retrieving data is very simple and you can choose to export from the device only selected and relevant files. Real-time measurements can be read-out via the Ethernet (Modbus TCP) or a RS-485 link (Modbus RTU).

Compatible and Already used with the most common systems

TRELLEBORG - BINSFELD - KYMA - LEMAG - TX MARINE - BROLICH

ShaPoLi

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AUTHORIZED & CERTIFIED AUTOMATION SERVICES & SYSTEMS