

# PASSPORT TO INNOVATION



autg  
MASKIN



# auto MASKIN

Managing Energy



**Auto-Maskin is an electronics and automation company specialising in engine control systems for maritime and industrial applications.**

The advanced products and solutions are renowned for their high quality and have set a global standard. The products outlined in this passport reflect decades of pioneering expertise and dedicated craftsmanship.



# The future is flexible



## Built for what's next

Auto-Maskin has over 55 years of experience in maritime and industrial control systems, shaped by decades of technological shifts. That history drives our expertise in:

- Engine and propulsion management
- Ship alarm management
- Power management
- Battery and hybrid systems
- Cloud-based telemetry

## Past innovations meet future demands

Marine Pro panels are future-ready, seamlessly integrating with diesel, electric, or hybrid propulsion systems. Paired with our smart remote panels, they provide real-time insights for safe, efficient operation.

## Cloud-ready

Own a Marine Pro 200/400 Series controller or Marine Watch alarm panel? You're already set for cloud-based remote monitoring. Marine Broadcast is built into new panels and in firmware updates for existing units.

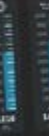
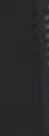
## Cyber security

At Auto-Maskin, cyber security isn't just a feature, it's part of how we design, deliver, and support every system.

Auto  
MAKING AI Engines

Port Motor - Running

Starboard Motor - Running



# Kraft™ PowerBank

Modular battery storage system



Aviation

Marine

Telecom

Fish farms

Construction sites

Utilities

Disaster relief

Events



**Cost optimisation**  
 Charge from grid at low prices, use or sell stored energy at higher prices.



**Grid reinforcement**  
 Peak shaving and extra power for areas with inadequate power grid.



**Emergency power**  
 Backup power for critical applications.



**Off-grid power**  
 Solar and wind-powered micro-grid charging.



**Genset optimisation**  
 Efficient operation and maintenance of gensets.



**Control and monitoring**  
 Local control, Broadcast remote monitoring.

## Revolutionary energy integration

With the Kraft™ smart logic integration, this innovative system harmoniously blends traditional and renewable energy sources, enhancing energy utilisation. A variety of transportable battery banks, capacities, and options await your selection.

- Energy management
- Hybrid – solar, wind and diesel genset control
- Live spot prices for forecast based charging
- Graphical interface for overview and control
- Remote monitoring using the Broadcast system



# Marine Broadcast

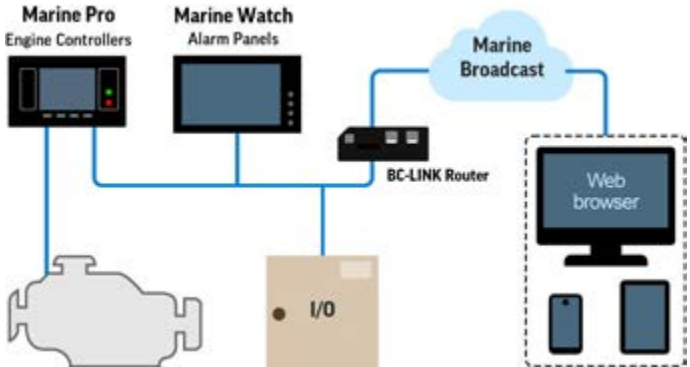
Cloud-based remote monitoring



- Real-time remote monitoring of entire fleets at any location
- Web-based, no software or installation needed
- Cell phones and tablets supported
- Live analogue data graphs and trending
- Live data logging and export
- SMS and/or email alerts
- Two-factor authentication

## Introducing Marine Broadcast

The secure cloud-based vessel monitoring solution available for Marine Watch, Marine Pro 200 Series and 400 Series systems.



- Connects vessel to ship management team
- Stationary and mobile devices supported
- SMS and/or email alerts to operators
- Intuitive operator interface
- Dashboard for company overview
- Easy to administrate
- Multi user support
- Preinstalled in the panels
- Optional Internet 4G router for vessels without Internet connection
- Quick setup



# Marine Watch S Series

Classed alarm management system



- IACS compliant vessel alarm system
- Informative widget based dashboard
- Engine and rudder angle live views
- Edge-to-edge glass front
- Touch screen with swipe support
- Supports periodically unattended machinery spaces
- No special tools or programming needed
- Multi-panel support
- Marine Broadcast remote monitoring ready

## S-ONE Alarm Panel

Configurable main panel or subpanel

- Swipe and touch screen, clear graphics and intuitive design
- Alarmlist and timestamped event log
- Events can be grouped
- Conditional logic for outputs
- Dead-man alarm for engine room
- Sparkline and trending for analogue signals
- Alarm status history widget for last 24 hours
- Unattended engine room with watch transfer function
- Location-based buzzer
- Selection of themes and day/night modes



Part #: 1500073 WxHxD: 333 x 202 x 51 mm



## S-ACE Annunciator Panel

Announce alarms anywhere on your craft

- Configured automatically when connected to the local Ethernet
- Apply filter to see only certain groups of events
- Install as many panels as needed



Part #: 1500075 WxHxD: 167x135x68 mm



## S Series I/O Cabinets

I/O cabinets with a wide range of options

- Up to four I/O cabinets in a system
- Multiple power and I/O type options
- Plug & Play to S-ONE
- Marine grade, IACS compliant
- Pre-configured smart I/O
- Optionally, install an S-ONE in the I/O cabinet door



S-C60 with a door mounted S-ONE Alarm Panel.

Part #: 1500080: S-C60 I/O Cabinet  
1500081: S-C120 I/O Cabinet

WxHxD: 600 x 600 x 210 mm  
WxHxD: 600 x 800 x 210 mm



\* Maximum 2 x S-AI8 gives a total of 16 flexible analogue input channels per I/O Cabinet.  
Maximum 2 x S-DO8 gives a total of 16 digital output channels per I/O Cabinet.

Part #: 1501257 S-C2E Cabinet 2 Engines  
1501258 S-C4E Cabinet 4 Engines

WxHxD: 300x300x210 mm  
WxHxD: 300x400x210 mm

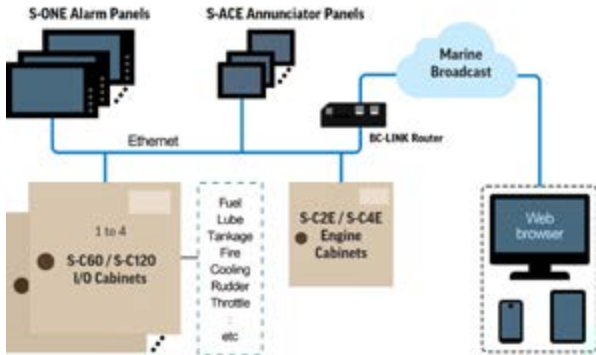


## Options

- 1500086: S-DMO Kit for door-mounted S-ONE
- 1500087: S-DO8 Eight Digital Outputs
- 1500090: S-AI8 Eight Analogue Inputs
- 1500083: S-UPS Intelligent UPS Power
- 1500082: 12V option for S-C60 and S-C120
- 1500084: Unmanaged Ethernet Switch
- 1500085: Managed Ethernet Switch
- 1501555: BC-LINK Router
- 2500622: Marine Broadcast (cloud-based service)

## Modular and scalable

The system architecture of the Marine Watch S Series is scalable and can be used in installations with several hundreds of channels.



## Analogue input and digital output options

The S-AI8 Eight Analogue Inputs option enables the use of warning and alarm setpoints on analogue signals. By providing live instrument views, operators gain immediate access to the statuses of each channel.

The S-DO8 Eight Digital Outputs option provides signal outputs through on-screen toggle or momentary switches controlled by the operator.

## Engine and rudder angle monitoring

Widget in dashboard and instrument for rudder angle monitoring, and the S-C2E or S-C4E Cabinet or an existing DCU enables the S-ONE to monitor an engine's ECM and display the engine data and any alarms and warnings.

## Ease of installation

Installation of the system is effortless. The complete system is configured on one S-ONE Alarm Panel, requiring no additional tools. Any additional panels are automatically configured via the network.

# Marine Watch LT Series

Unclassed alarm management system



- Unclassed vessel alarm system
- High-resolution colour touch screen
- Improved vessel safety
- No programming or special tools
- Multi-panel support
- Remote monitoring

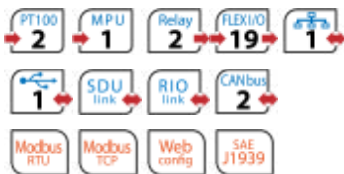
## LT-ONE Alarm Panel

Main alarm operator panel

- Up to 20 digital alarm channels
- Up to 16 analogue alarm channels
- Marine-grade
- User-configurable with no extra tool required
- Marine Broadcast enabled
- Easy installation



Part #: 1500074 WxHxD: 167 x 135 x 68 mm



## LT-ACE Annunciator Panel

Remote alarm operator panel

- Multiple power and input options are available
- Marine-grade
- Self-configuring



Part #: 1500120 WxHxD: 167 x 135 x 68 mm



# Marine Pro 400 Series

Premium classed engine management



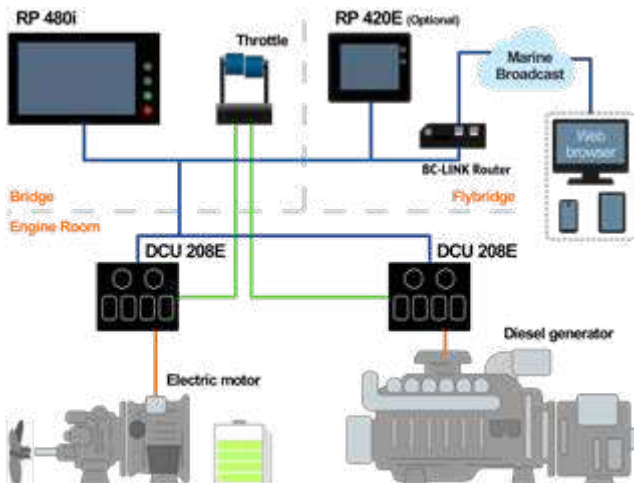
- Provides clear, accurate decision making tools
- Battery and hybrid systems ready
- A multiple IACS class-approved core diesel engine control and monitoring system
- Expandable to include other vessel systems and multiple engines
- Automatic component integration reduces the cost of installation and commissioning
- Plug-and-play expansion via Ethernet for remote panels and additional features
- Requires no special tools or software
- Marine Broadcast remote monitoring



## Diesel, electric or hybrid?

Auto-Maskin's innovations that shaped diesel control systems decades ago now combine with today's latest technology, creating solutions ready to handle all propulsion modes, from traditional to fully electric.

By utilising a DCU from the proven **Marine Pro** engine controllers as the interface to the motor, you gain seamless integration with our self-configuring Marine Pro remote panels. This gives you a professional, clean, and intuitive overview for the operator. No setup. No programming. No hassle.



*Simple topology for minimal wiring of hybrid propulsion*

## RP 480i Remote Panel

- Truly self-configuring
- No practical limit to the number of remote panels
- Each controls up to eight DCU engine controllers in the 200 / 400 Series
- Battery and hybrid systems ready



Part #: 1500061 WxHxD: 333 x 202 x 51 mm



## RP 420E Remote Panel

- Truly self-configuring
- Small footprint for tight spaces
- Each controls one or two DCU engine controllers in the 200 / 400 Series
- Battery and hybrid systems ready



Part #: 1006484 WxHxD: 167 x 135 x 68 mm

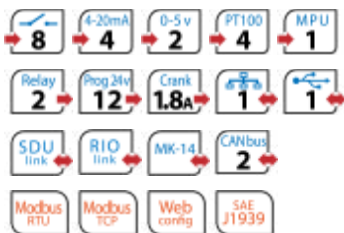


## DCU 410E Engine Controller

- Easy and intuitive operation
- Battery and hybrid systems ready
- No special software or tools required
- Programmable logic



Part #: 1006445 WxHxD: 260 x 160 x 50 mm

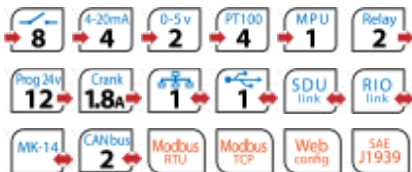


## DCU 408E Engine Controller

- Reduced cost where no local display is required
- Battery and hybrid systems ready
- No special software or tools required
- Programmable logic

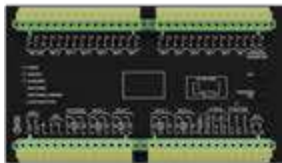


Part #: 1006510 WxHxD: 244 x 164 x 50 mm



## SDU 420 Safety Shutdown Unit

- Ability to derate rather than shutdown
- Gear and RPM interlocks available on all channels
- Analogue channels available for shutdown
- Local indication for each channel status
- Wire-break and short-circuit detection as standard



Part #: 1500158 WxHxD: 183 x 105 x 52 mm



## SDU 404 Safety Shutdown Unit

- Low-cost IACS compliance for smaller engines
- “Requires in gear” logic available on shutdown channels
- Small footprint with premium features still included
- Local indication for each channel status
- Wire-break and short-circuit detection as standard

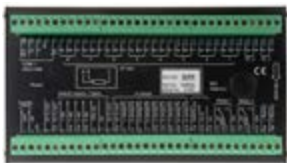


Part #: 1006418 WxHxD: 101 x 105 x 52 mm



## RIO 410 Remote I/O Unit

- Plug-and-play connectivity to any DCU
- Simplified wiring to sensors
- Lowest cost of analogue integration



Part #: 1006453 WxHxD: 185 x 105 x 45 mm



## RIO 412 Exhaust Temperature Interface

- Provides additional engine performance monitoring
- Variety of alarm configurations for early warning
- Ease of connection to DCUs



Part #: 1006454 WxHxD: 149 x 73 x 145,3 mm



## RIO 425 AC Generator Interface

- Reduces costs as no AC metering is required
- Automatically detected and displayed by any Marine Pro engine controller
- Self-contained



Part #: 1500443 WxHxD: 52 x 85 x 70 mm



# Marine Pro 200 Series

Unclassed engine management

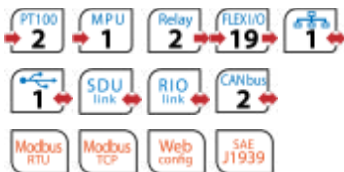


- Battery and hybrid systems ready
- A premium featured range of controllers and displays
- Global product line with multiple languages built-in
- No special software, skills or tools required

## DCU 210E Engine Controller

- Simple set-up and intuitive operation
- Highly flexible and with configurable channels that reduce costs
- Durable, rugged and sealed for use in demanding conditions
- Battery and hybrid systems ready

Part #: 1006475 WxHxD: 167 x 135 x 68 mm



## DCU 208E Engine Controller

- Reduced cost option where no local display is required
- Highly flexible and with configurable channels that reduce costs
- Durable, rugged and sealed for use in demanding conditions
- Battery and hybrid systems ready

Part #: 1006477 WxHxD: 163 x 131 x 75 mm



## RP 210E Remote Panel

- Lowest cost installation and commissioning
- Feature-rich enabling improved operational efficiency
- No practical limits to distance or number of remote panels connected
- Battery and hybrid systems ready

Part #: 1006476 WxHxD: 167 x 135 x 68 mm



## RP 220E Remote Panel

- Lowest cost installation and commissioning
- Reduces console space required to monitor two engines
- Works seamlessly with any Marine Pro controller
- Battery and hybrid systems ready

Part #: 1006472 WxHxD: 167 x 135 x 68 mm



## RP 206E Remote Panel

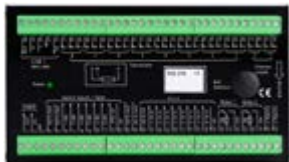
- Lowest cost installation and commissioning
- Monitor-only functionality maintains operational security
- Durable, rugged and sealed for use in demanding conditions
- Battery and hybrid systems ready

Part #: 1006478 WxHxD: 167 x 135 x 68 mm



## RIO 210 Remote I/O Unit

- Cost-effective analogue sensor integration
- Simplified wiring to sensors reduces costs
- Simple configuration via any Marine Pro DCU



Part #: 1006462 WxHxD: 185 x 105 x 45 mm



# Marine ProConnect

The fastest install there is

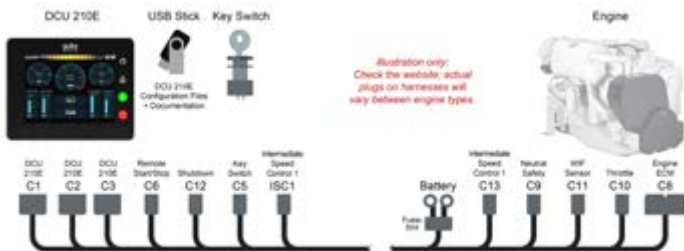


- Plug-and-play engine control kits for specific engine models
- Includes harness, key-switch, a DCU 210E Engine Controller and a USB stick with configuration files
- Connectors matched to each engine model and optional auxiliaries
- Harnesses available in several lengths
- No special tools or cables are needed
- USB port for “One Touch” updates

## The fastest install there is

The DCU 210E Engine Controller, renowned for its ease of installation, now offers an even swifter setup with tailored harnesses for specific engine models, inclusive of all essential connectors, preconfigured files, and a key switch.

Pre-defined configuration files seamlessly complement engine capabilities, while additional configuration can be made via any web browser. Backed by Auto-Maskin's global support, the full system warranty ensures peace of mind.



## ProConnect engine models

**ProConnect C1** for Cummins QSB6.7, QSC, QSL9 or QSM11 engines  
Part #: 1100711 (25 ft / 7.6 m) | 1501046 (50 ft / 15.2 m)

**ProConnect X15** for Cummins X15 engines  
Part #: 1501029 (10 ft / 3 m) | 1500394 (25 ft / 7.6 m) | 1500384 (50 ft / 15.2 m) | 1500379 (75 ft / 22.8 m)

**ProConnect B4.5** for Cummins B4.5 engines  
Part #: 1501025 (10 ft / 3 m) | 1500987 (25 ft / 7.6 m) | 1500998 (50 ft / 15.2 m) | 1501027 (75 ft / 22.8 m)

**ProConnect Scania** for Scania engines  
Part #: 1501122 (25 ft / 7.6 m)

*ProConnect will be made available for more engine brands and models based on demand. Please send a request for any additional engine models.*



## DCU 305 R3 LT Engine Controller

- Most cost-effective option for IACS installations
- Ideally suited to mechanical engines
- Easy to install, configure and operate

Part #: 1006420 WxHxD: 260 x 160 x 35 mm



## RSP 305 Remote Panel

- Low-cost installation with minimum wiring
- Replicates the Engine room data for up to four DCU 305 engine controllers
- Truly self-configuring panel

Part #: 1006500 WxHxD: 250 x 160 x 50 mm



## MK-14 Relay Expansion Unit

- Can be Event or Sensor driven
- Plug & Play connectivity reduces costs and technical risk
- Significantly reduces wiring complexity



Part #: 1121341 WxHxD: 117 x 105 x 52 mm



## AK-6 Analog Expansion Module

- Easily expands the analogue input capability of the 300 Series engine controllers
- Preserves the relay extension capability of the 300 Series engine controllers



Part #: 1075264 WxHxD: 117 x 105 x 35 mm











## RK-66 Interface Module

- Mandatory requirement for each DCU 305 controller, and is included when purchasing any DCU 305
- Specifications: See DCU 305
- Available as a replacement unit only









Part #: 1075410 WxHxD: 240 x 105 x 35 mm




## Inputs

	Digital switch
	Analogue 4-20mA
	Analogue 0-5V
	Analogue 0-10V
	Platinum thermo sensor
	Negative Temp. Coefficient sensor
	Thermocouple sensor
	Magnetic pickup


## Outputs

	Relay
	Programmable 24V
	Pulse Width Modulated signal
	Crank signal
	Shutdown signal
	High-Definition Multimedia Interface










## Connections

	Video camera over Ethernet
	DCU over Ethernet
	LT-ONE over Ethernet







## Flexible I/O

	Fully configurable analogue or digital
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## Interfaces

	Ethernet port
	USB port
	SDU link connector
	RIO link connector
	MK-14 connector
	AK-6 connector
	AK-6 + MK-14 connector
	RS-232 connector
	CAN bus connector











## Protocols

	Modbus RTU protocol
	Modbus TCP protocol
	Rudolf configuration
	Web based configuration
	CANopen protocol
	SAE J1939 CAN bus protocol

## Compatibility

	200 Series
	300 Series
	400 Series
	Broadcast compatible
	LT Series
	S Series
	IACS approved
	Cyber Secure

## Properties

	Screen size
	Touch screen
	Adjustable backlight
	Automatic backlight
	Night mode
	Number of languages
	Metric / imperial
	Power supply voltage
	Dust and water protection
	Mounted front dust and water protection



## We are committed to the long haul

Auto-Maskin has been delivering thousands of units annually to customers worldwide for over 50 years. The majority of our customers return for upgrades.

*- “Not only do Auto-Maskin products boast quality for a long and trouble-free lifespan at sea, but the lifetime support is unparalleled – it’s simply the best.”*

With Auto-Maskin’s guaranteed 10-year service, support, and equivalent parts program, customers can trust that their vessel’s product will be supported throughout its lifetime. We are committed to the long haul.

## Discontinued products

Products that are no longer serviceable or possible to produce are still very much alive with our support team.

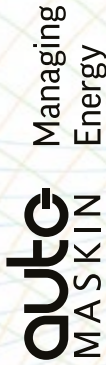
## Legacy products

The oldest legacy products supported today were developed and supplied back in the '70s. If you provide us with the article and serial numbers, then the expert team at Auto-Maskin will safely guide you to spare parts that fit right in.

- Documentation
- Knowledge-based support
- Upgrade support
  
- Spare parts
- In-field service
- Authorised repair centers

# Global Presence





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Lido Marine Co. (div. of Greenship Co.)

Part No: 1080699

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