

PASSPORT TO INNOVATION



autc
MASKIN

auto MASKIN

MANAGING ENERGY

Since 1969, Auto-Maskin has been at the forefront of developing advanced energy management solutions, establishing Auto-Maskin's position as the preferred manufacturer of high-quality products for marine and automation applications worldwide.

The products in this passport are developed and supported by a team of enthusiastic specialists who carry on the legacy of technical proficiency and business know-how.



Products and services

Engine management

World-class type approved engine management lies at the core of Auto-Maskin's expertise.

Propulsion management

Whether your ship's propulsion is driven from a single diesel engine, a complex hybrid solution or with alternative fuels.

Power management

Advanced emergency power systems and integrated power management products.

Ship alarm systems

Easy to use operator interface displaying instant recognition of vessel status.

ecoEnergy

Battery banks that reduce the ecological footprint using the ingenious Kraft™ power solutions.

Custom projects

Fifty years of experience designing and producing custom projects for our customers. Our solutions combine well-proven design with modern products and technology.



Battery banks are increasingly being specified as the preferred solution

Kraft™ PowerBank



An environmentally friendly, versatile and transportable battery power bank. Multiple capacities and configurations are available.



Safety

Fire-resistant to EI60. Fire hose coupling, gas detection and emergency ventilation.



Lower Costs

Charge from grid at low cost. Spend where or when needed.



Versatile

Power bank or hybrid solution for locations where there are no or weak power grid.



Easily transported

Transportable on a trailer to any desired location.



Environmentally friendly

No greenhouse gases or other emissions, no odours, no vibration, and noise-free.



Control and monitoring

Local control and remote monitoring.



Infrastructure

No need for infrastructure, but can be connected to the power grid if available.



Plug & play

Plug it in and feed power to whatever you need it for.

Aviation
Ships and boats
Telecom
Fish farms

Construction sites
Utilities
Disaster relief
Events

Power

Kraft™ PowerBank is typically charged quickly and has a relatively low output power to consumers over a long time.

It can also be used for peak-shaving in an installation combined with the power grid or a genset.

Hybrid

A genset will charge the Kraft™ PowerBank automatically for a predefined time, and only when needed.

A genset can thereby be operated at optimum effect for better fuel economy and service life.

Marine Watch S Series

Classed Alarm Management System



- Full vessel alarm system
- IACS compliant
- Edge-to-edge glass front
- Touch screen with swipe support
- Supports Periodically Unattended Machinery Spaces
- System redundancy
- No programming
- Cost-effective
- Multi-panel support

S-ONE Alarm Panel

Configurable main panel or subpanel

- Swipe and touch screen, clear graphics and intuitive design
- Selection of themes and day/night modes
- Timestamped event log
- Events can be grouped
- Includes Dead Man Alarm
- Install as many panels as needed



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

- Two types: 60 or 120 switch inputs
- Support for up to four I/O cabinets in each S Series system
- Multiple power and input options available
- Plug & Play to S-ONE
- Marine grade, IACS compliant
- Pre-configured smart I/O
- Add more I/O types from the options list
- Optionally, install an S-ONE in the I/O cabinet door

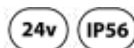


Image shows S-C60 I/O Panel with a door mounted S-ONE Alarm Panel.

Cabinet sizes depend on number of input channels and configuration.

WxHxD: 600x600x210 / 600x800x210 mm

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



* 2 x S-AI8 gives a total of 16 flexible analogue input channels.
2 x S-DO8 gives a total of 16 digital output channels.

S-BC Broadcast SMS/email Alarming

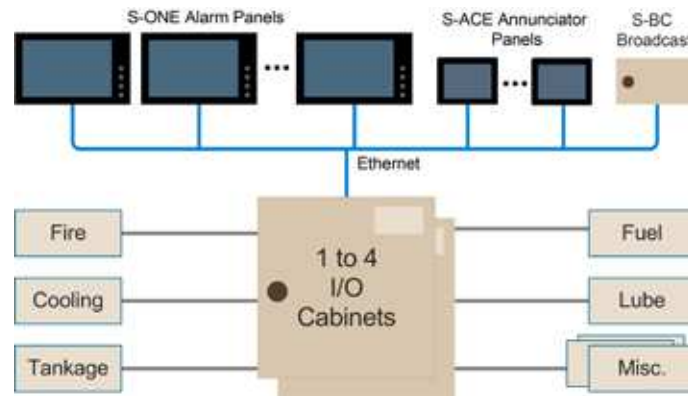
- Sends SMS or email messages on selected alarms to multiple receivers
- Includes a module for internet and SMS access to GSM networks

Part #: 2500230 WxHxD: 300x300x210 mm



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.



Ease of installation

The system is a breeze to install. The complete system is configured on one S-ONE Alarm Panel only, without the use of extra tools. Any other panels are automatically configured over the network.

Options

- 1500082: 12V option for S-C60 and S-C120
- 1500083: S-UPS Intelligent UPS Power
- 1500086: S-DMO Door-mounted S-ONE
- 1500090: S-AI8 Eight Analogue Inputs
- 1500087: S-DO8 Eight Digital Outputs

Marine Watch LT Series

Alarm Management System



- Unclassed vessel alarm system
- High-resolution colour touch screen
- Improved vessel safety
- System redundancy
- No programming
- Cost-effective
- Multi-panel support

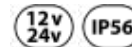
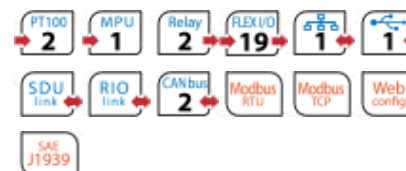
LT-ONE Alarm Panel

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
- Easy installation



Part #: 1500073 WxHxD: 167 x 135 x 68 mm



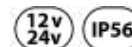
LT-ACE Annunciator Panel

Remote alarm operator panel

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



Part #: 1500073 WxHxD: 167 x 135 x 68 mm



Marine Pro 400 Series



- Provides clear, accurate decision making tools
- 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 cost of installation and commissioning
- Plug & Play expansion via Ethernet for remote panels and additional features
- Requires no special tools or software



RP 480i Remote Panel

The RP 480i is a high resolution 12" touchscreen remote panel that can monitor and control up to eight DCU engine controllers in the Auto-Maskin Marine Pro 200 or 400 Series.



- Truly self-configuring
- No practical limit to the number of panels
- "Glass" helm design

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



DCU 410E Engine Controller

- Easy and intuitive operation
- Includes engine troubleshooting tools
- No special software or tools required



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

8	4-20mA 4	0-5v 2	PT100 4	MPU 1	Relay 2	200 Series	400 Series	IACS
Prog 24v 12	Crank 1.8A	1	1	SDU link	RIO link	5.7"	A	15
MK-14	CAN bus 2	Modbus RTU	Modbus TCP	Web config	SAE J1939	ft m/c	24v	IP56 front

DCU 408E Engine Controller

- Reduced cost where no local display is required
- Includes engine troubleshooting tools
- No special software or tools required

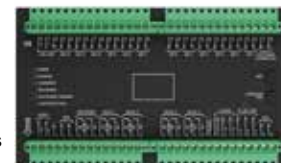


Part #: 1006510 WxHxD: 244 x 164 x 50 mm

8	4-20mA 4	0-5v 2	PT100 4	MPU 1	Relay 2	200 Series	400 Series	IACS
Prog 24v 12	Crank 1.8A	1	1	SDU link	RIO link			
MK-14	CAN bus 2	Modbus RTU	Modbus TCP	Web config	SAE J1939		24v	

SDU 420 Safety Shutdown Unit

- Ability to derate rather than shutdown
- "Requires In gear" logic available on shutdown 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

12	MPU 1	4-20mA 2	PT1000 1	Relay 4	Shut-down	200 Series	400 Series	IACS
SDU link							24v	IP30

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

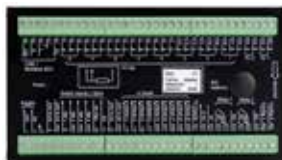


Part #: 1006418 WxHxD: 101 x 105 x 52 mm

4	MPU 1	Relay 2	Shut-down	SDU link	200 Series	400 Series	IACS	
							24v	IP30

RIO 410 Remote I/O Unit

- Plug & Play connectivity to any DCU
- Simplified wiring to sensors
- Lowest cost of analogue integration



Part #: 006453 WxHxD: 185 x 105 x 45 mm



RIO 412 Exhaust Temperature Interface

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



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



LSU 408 Load Sharing Unit

- Ability to control up to 16 gensets and associated breakers
- Automatically detected and displayed by any Marine Pro engine controller
- Multiple compatibilities to most engine governor types and alternator AVR types
- Tiebreaker dependent load sharing
- Load depended start/stop
- Redundant load sharing buses
- Heavy consumer request



Part #: 1311188 WxHxD: 248 x 197 x 57 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

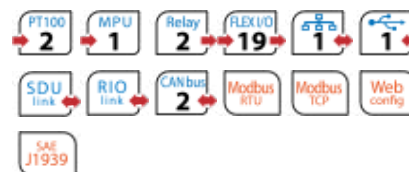


- A premium featured range of controllers and displays
- Global product line with multiple languages built-in
- No special software, skills or tools required

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

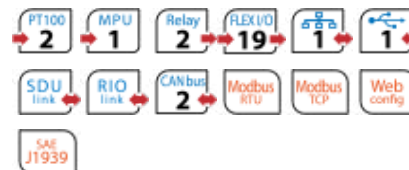
Part #: 1006475 WxHxD: 167 x 135 x 68 mm



DCU 208E Engine Controller

- Reduced cost option where no local display is required
- Highly flexible, with configurable channels reduces costs
- Durable, rugged and sealed for use in demanding conditions

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



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



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



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



NMEA 2000 / J1939 Converter

- Integrates GPS to Marine Pro engine controllers, enabling Fuel Economy calculations
- Enables engine "sweet spot" operation
- Simple configuration via Marine Pro DCU

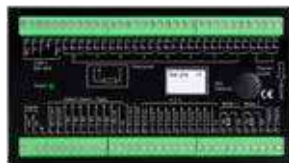


Part #: 1121416 WxHxD: 96 x 84 x 35 mm



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



RIO 216 Remote I/O Unit

- Plug & Play connectivity to any Marine Pro 200 or 400 Series DCU Engine Controller
- Simplified wiring to sensors
- Lowest cost of switch integration



Part #: 1006417 WxHxD: 119 x 36 x 133 mm



Protective Cover 200E Series

- Provides physical protection
- Transparent or black
- Fits all 200E DCUs and RPs, S-ACE, LT-ONE and LT-ACE

Part #: 1101196 (transparent) | 1101483 (black)



Basic Harness Kit RP 200E Series

- Easy installation of a 200E Series remote panel
- 2 meter power cable and sealing blind plugs

Part #: 1006946



Connector Kit DCU 200E Series

- Easy installation of a 200E Series DCU Engine Controller
- Four Deutsch DT-connectors, crimp sockets and sealing plugs

Part #: 1006479



Harness Conversion Kit DCU 200E Series

- Easy replacement of a classic 200-series DCU Engine Controller with a 200E-series DCU Engine Controller
- Four prewired Deutsch DT-connectors

Part #: 1006945



Marine ProConnect

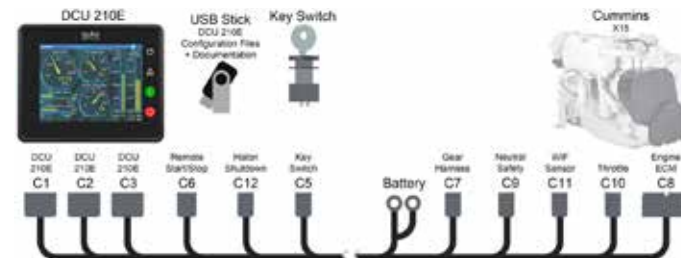


- Plug & Play control systems for propulsion engines
- A harness with connectors and a DCU 210E engine control unit
- Pre-defined configuration files mean no programming
- No special software is required. Engine configuration adjustments can be made using any web browser
- ProConnect products can be defined for further engine lines on request

ProConnect C1

- Fits Cummins QSB6.7, QSC, QSL9 and QSM11 engines
- Includes a connection harness with all necessary and a set of optional connectors, a DCU 210E engine control unit and a USB stick with pre-defined configuration files

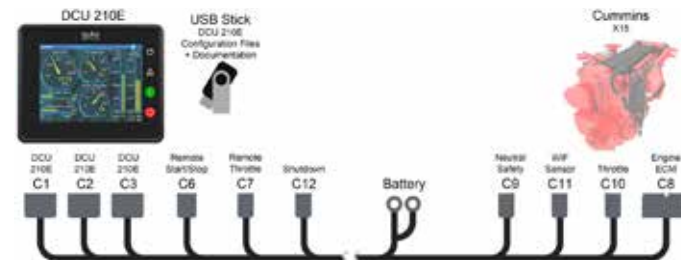
Part #: 1100711



ProConnect X15

- Fits Cummins X15 engines
- Includes a connection harness with all necessary and a set of optional connectors, a DCU 210E engine control unit and a USB stick with pre-defined configuration files

Part #: 1500394



Marine Pro 300 Series



- Provides cost-effective certification compliance
- Easy installation and configuration reduces costs
- Well-proven with thousands in the field

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 are given for 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

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
- LT Series
- S Series
- NMEA compliant
- IACS approved

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 in it for the long-run

Auto-Maskin has supplied thousands of units annually to customers in every corner of the world for over 50 years. The majority of our customers returns when it's time for an upgrade, but why?

- "Not only have the Auto-Maskin products a quality that gives them a long and trouble-free life at sea, but the support over its lifetime is next to none - it is simply the best."

Auto-Maskin has a guaranteed 10-year service, support, and equivalent parts program. As a customer, you can rely on that the product in your vessel can be supported over its lifetime - we are in it for the long-run.

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.

- Spare part
- In-field service
- Authorised repair centers
- Documentation

Discontinued products

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

- Documentation
- Knowledge-based support
- Product upgrade support

Global Presence



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