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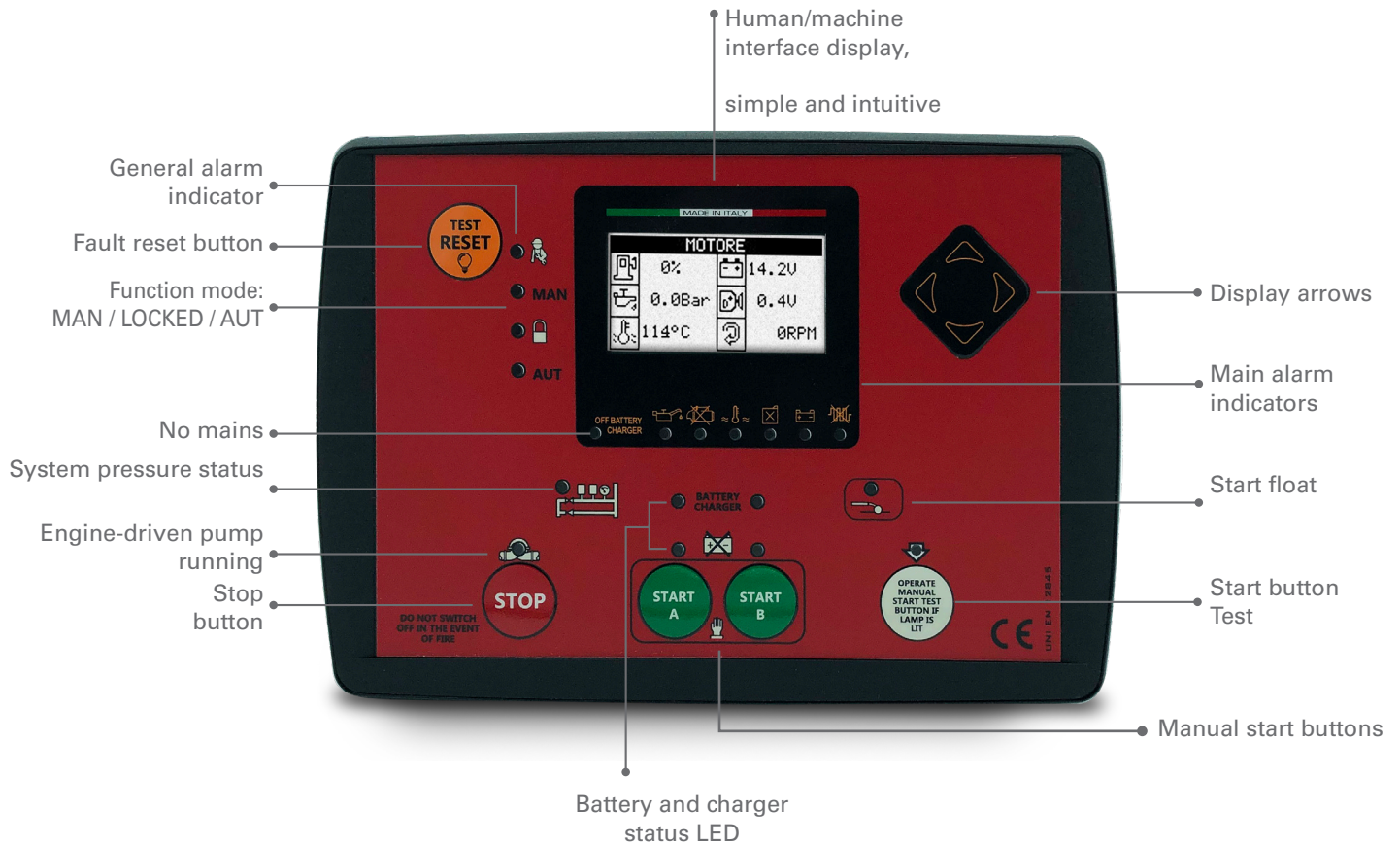
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# Каталог продукции на устройства управления системами пожаротушения КОМПАНИИ **ELCOS**

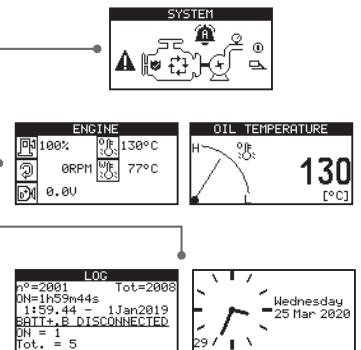
## Control unit for engine-driven fire-fighting pumps, designed for control panel fit-outs ENGINE-DRIVEN PUMP compliant with Standard UNI EN 12845



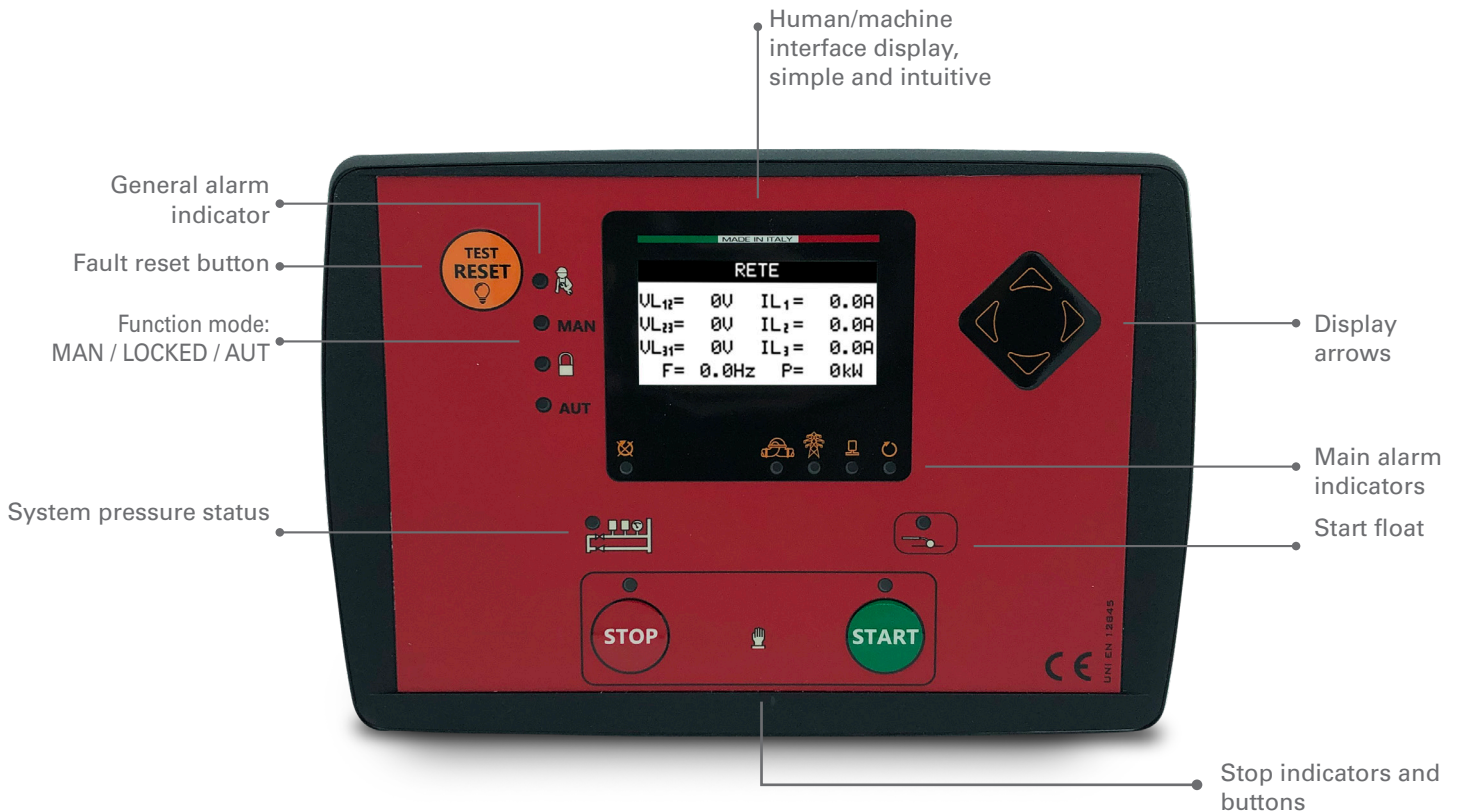
### Comes with all instruments, digital or analogue version, including:

- Voltmeters for batteries A and B
- Hour-meter
- Tachometer
- Fuel level indicator
- Water thermometer
- Oil thermometer
- Oil pressure gauge
- Start-up counter
- Ambient air thermometer
- Clock, calendar
- Event log

- Engine-driven pump system overview
- View of all main instruments or a specific one
- Calendar clock and event description
- Fully programmable digital inputs and outputs RS-232, RS-485 serial ports and USB.
- Resident languages (IT, EN, ES, DE, FR, PT, NL, TR, PL) and a further user programmable.
- Choice of two- or three-position operating mode selector.
- Jockey pump connection and control.
- Programmable analogue inputs (4-20mA for system pressure transducer or PT-100 probe for ambient temperature).
- Possibility to add expansion cards for additional digital I/O modules or other RS-485 ports.
- Remote signalling via ModBUS communication.
- Event log control (complete log of up to 5,100 events) also via Bluetooth, in the /BT version.
- Full remote control when connected to Gateway GTW-4.0 interface.
- Easy to program from a PC with ZW-SMART software and multiple password levels.
- The C-SMART-1200 uses SCC-1200 power board, for simplified and fewer connections to automatic panel.



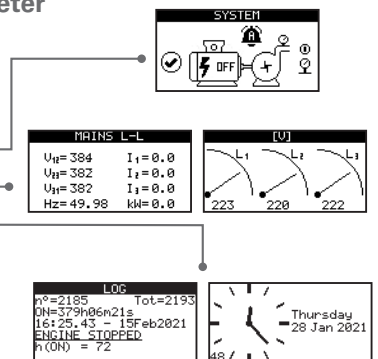
**Control unit for electric fire-fighting pumps, designed for control panel fit-outs**  
**ELECTRIC PUMP compliant with Standard UNI EN 12845**



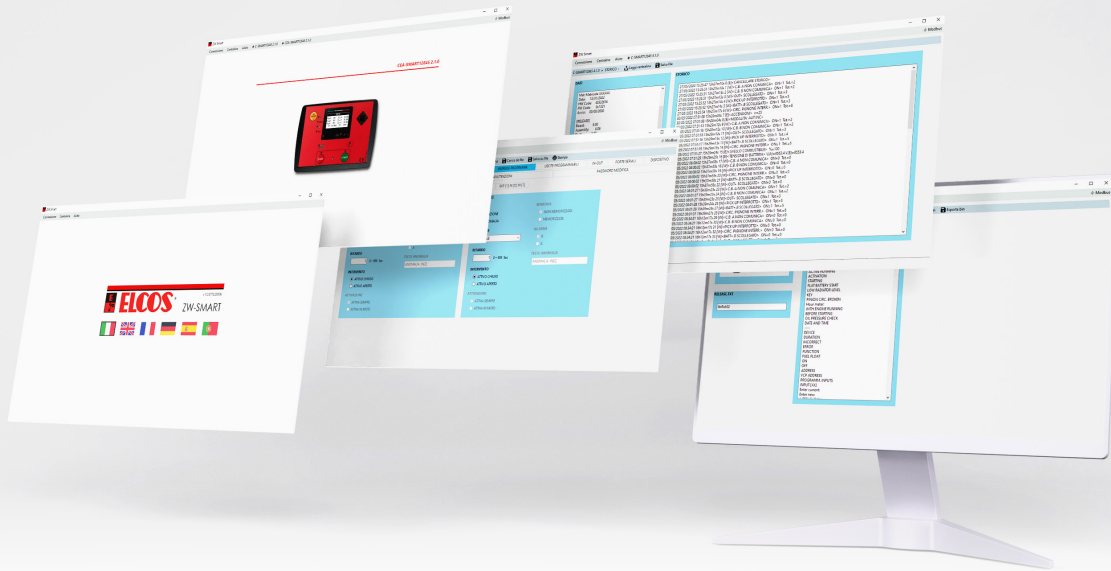
Comes with all instruments, digital or analogue version, including:

- 3 Mains voltmeters
- 3 Ammeters max 2000A  
(Possibility of connecting only one ammeter)
- Mains frequency meter
- Wattmeter (active power)
- Varmeter (reactive power)
- Voltammeter (apparent power)
- Power factor indicator
- Hour-meter
- Ambient air thermometer
- Clock, calendar
- Event log

- Electric pump system overview
- View of all main instruments or a specific one
- Calendar clock and event description
- Fully programmable digital inputs and outputs RS-232, RS-485 serial ports and USB.
- Resident languages (IT, EN, ES, DE, FR, PT, NL, TR, PL) and a further user programmable.
- Choice of two- or three-position operating mode selector.
- Jockey pump connection and control.
- Programmable analogue inputs (4-20mA for system pressure transducer or PT-100 probe for ambient temperature).
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- Remote signalling via ModBUS communication.
- Event log control (complete log of up to 5,100 events) also via Bluetooth, in the /BT version.
- Full remote control when connected to Gateway GTW-4.0 interface.
- Easy to program from a PC with ZW-SMART software and multiple password levels.
- Simplified CEA-SMART-025 control unit without 230Vac supply and OUT.4







Software developed for set-up of the control unit via USB port.

Once connected to the PC, the latter will automatically recognise the control unit and make it possible to:

- Consult settings more easily.
- Upload factory settings.
- Upload or download dedicated settings.
- Upload or download custom logos.
- Edit a custom language.

ELCOS Smart Connect app

The ELCOS Smart Connect app is available free of charge for C-SMART12845/BT and CEA-SMART 12845/BT control units, giving the opportunity to download, read and share control unit logs on a smartphone.



# GATEWAY GTW-4.0

GATEWAY GTW-4.0, an IOT device, is used to manage the fire-fighting system remotely. Just one GTW-4.0 connected to all the control units and panels of the system is all that is needed to monitor the system remotely.

**NEW**

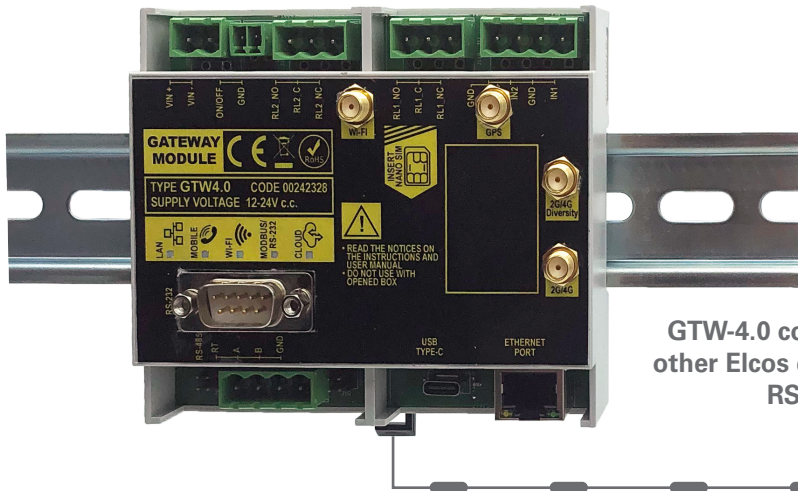
**CLOUD SERVER**  
Connected via WiFi, Ethernet port or 4G-LTE modem.



Il gateway è programmabile tramite PC, localmente tramite USB oppure tramite il Cloud.

Once installed, the device provides:

- Geolocation and position-based identification.
- Multiple levels of access, with hierarchical differentiation, using customisable credentials and logos.
- Access from any device.
- Possibility to reach and manage multiple systems.
- Possibility to communicate with each Elcos device present on the individual systems, managing them separately.



GTW-4.0 communicates with other Elcos devices via isolated RS-485 BUS.



## REMOTE ALARM MONITORING AND SIGNALLING SYSTEM FOR FIRE-FIGHTING SYSTEMS

The monitoring system consists of a panel, or a board to be installed in the panel, for data collection, and a fire alarm and signal panel. The two devices communicate with each other via RS-485 serial connection.

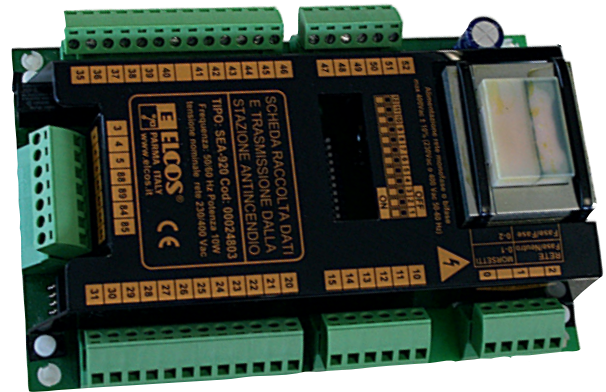
### FIRE-FIGHTING STATION DATA COLLECTION

PANEL



NFE-920/10 TYPE

BOARD  
for installation in  
panel

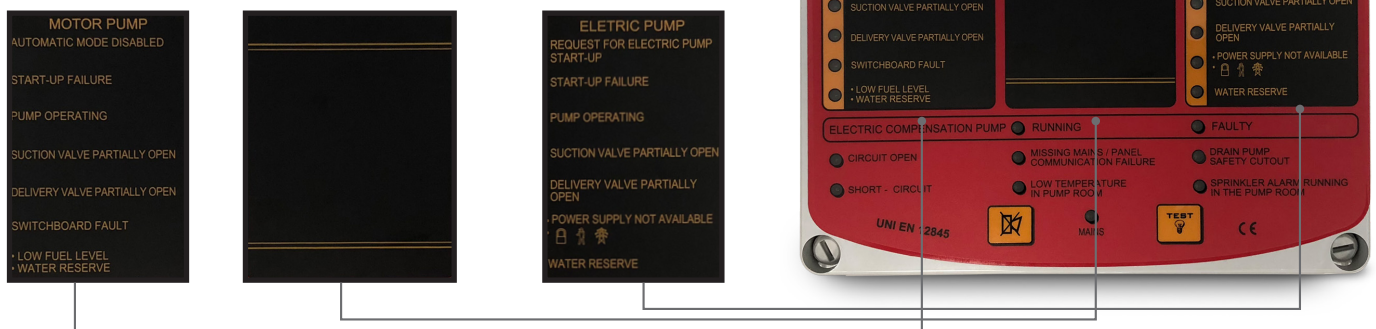


SEA-920/10 TYPE

## FIRE ALARM AND SIGNAL PANEL FOR MANNED LOCATION

The NFE-921/10 panel uses a serial connection to remotely detect signals from the control panels in the engine-driven and electric pumps and other signals of the fire-fighting system. To complete the panel, you simply choose the desired composition and apply the pertinent labels in the appropriate spaces.

Sample composition:  
(1 electric pump and 1 engine-driven pump)

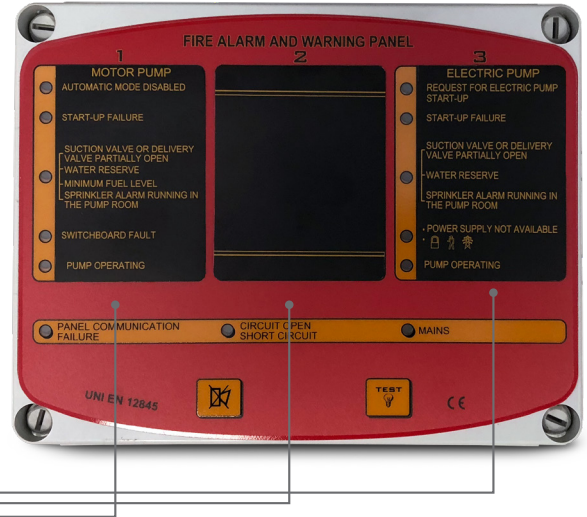
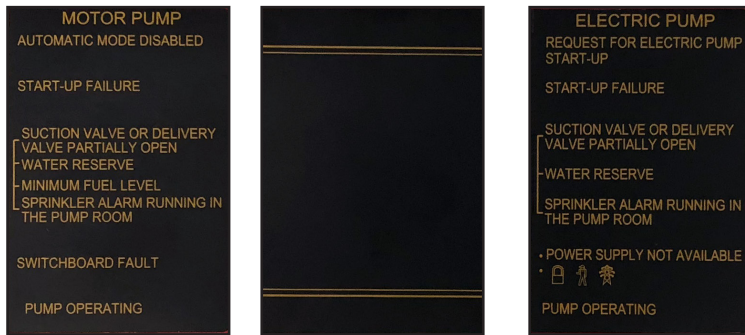


NFE-921/10 TYPE

## FIRE ALARM AND SIGNAL PANEL FOR MANNED LOCATION

The NFE-919/10 panel uses an RS-485 serial connection to remotely detect all the signals coming from the control panels in the engine-driven and electric pumps of the fire-fighting system. To complete the panel, you simply choose the desired composition and apply the pertinent labels in the appropriate spaces.

Sample composition:  
(1 electric pump and 1 engine-driven pump)



NFE-919/10 TYPE

## CBS

### AUTOMATIC BATTERY CHARGERS FOR LEAD ACID BATTERIES



Fitted with hook for DIN bar.

With three charging levels: fast charge with current control, intermediate, and maintenance.

**CBS - 031 (3.5A)**  
**CBS - 061 (6A)**

RS-485 serial communication port over which the battery voltmeter, charging current ammeter and battery status transmit.

Signals due to short circuiting, polarity inversion, and battery cable disconnection.



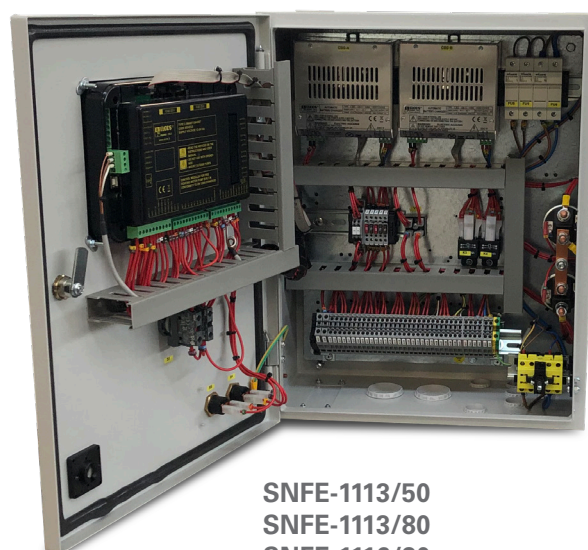
**CBS-010 (1A)**

Simple battery charge status signal LED.

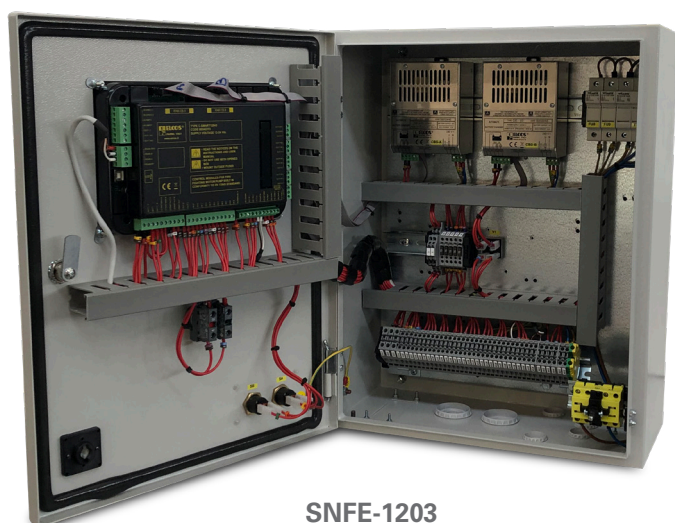


# AUTOMATIC CONTROL PANELS FOR ENGINE-DRIVEN FIRE-FIGHTING PUMP UNIT EN 12845

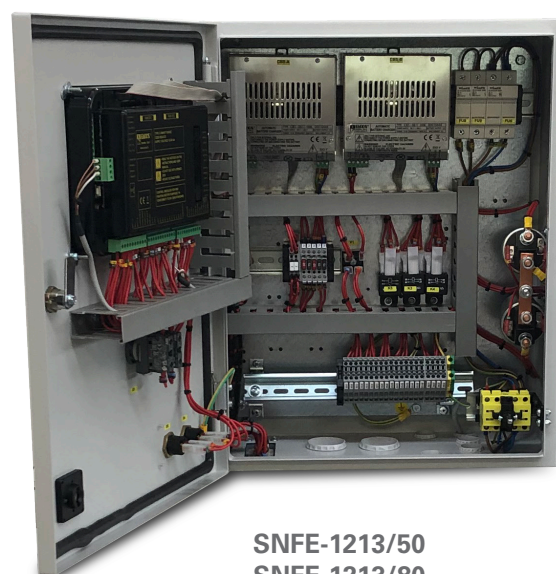
Equipped with C-SMART12845 control unit



SNFE-1113/50  
SNFE-1113/80  
SNFE-1116/80



SNFE-1203  
SNFE-1206



SNFE-1213/50  
SNFE-1213/80  
SNFE-1216/80

components installed in the panel	SNFE 1203	SNFE 1206	SNFE 1213/50	SNFE 1213/80	SNFE 1216/80	SNFE 1113/50	SNFE 1113/80	SNFE 1116/80
C-SMART 12845	X	X	X	X	X	X	X	X
CBS-031 3.5A	X		X	X		X	X	
CBS-061 6A		X			X			X
power relay 500A			X			X		
power relay 800A				X	X		X	X
16-pole watertight connector including cable harness for engine connection			X	X	X			
watertight connector for connection to the engine heater			X	X	X			
connection to motor system via terminal block	X	X				X	X	X

# AUTOMATIC CONTROL PANELS FOR ELECTRIC FIRE-FIGHTING PUMP UNI EN-12845

## Direct start-up

Equipped with CEA-SMART12845 control unit



- Three-phase power supply 400Vac 50/60Hz.
- Low-voltage control inputs.
- AC3 electric pump contactors.

Type	kW	In (A)	hP	Dimensions LxHxW (mm)
SNFD-4	4	8	5.5	400x500x200
SNFD-5.5	5.5	11	7.5	
SNFD-7.5	7.5	15	10	
SNFD-9.2	9.2	19	12.5	
SNFD-11	11	23	15	
SNFD-15	15	29	20	400x600x200
SNFD-18.5	18.5	40	25	
SNFD-22	22	50	29	
SNFD-30	30	63	40	

# AUTOMATIC CONTROL PANELS FOR ELECTRIC FIRE-FIGHTING PUMPS UNI EN-12845 Star-Delta starter

Equipped with CEA-SMART12845 control unit



- Three-phase power supply 400Vac 50/60Hz.
- Low-voltage control inputs.
- AC3 electric pump contactors.

Type	kW	In (A)	hP	Dimensions LxHxW (mm)
SNFST-15	15	31	20	400x600x200
SNFST-18.5	18.5	38	25	
SNFST-22	22	50	30	
SNFST-30	30	62	40	500x700x200
SNFST-37	37	75	50	
SNFST-45	45	100	60	
SNFST-55	55	124	74	600x800x300
SNFST-75	75	135	100	
SNFST-90	90	155	120	
SNFST-110	110	200	147	800x1000x300
SNFST-132	132	241	177	
SNFST-160	160	280	214	
SNFST-200	200	350	268	800x1300x300
SNFST-250	250	430	335	

## PRESSURE MAINTENANCE PUMP (JOCKEY PUMP) CONTROL PANELS

- Three-phase power supply ~ 50/60Hz 400V 4kW.
- Low-voltage circuit inputs.
- Adjustable electronic control for motor overload
- General alarm output and thermal trip.
- Direct start-up (4kW).



**NFJ-P4/10 TYPE**  
(ABS BOX)



**NFJ-M4/10 TYPE**  
(METAL BOX)

Type	Current	BOX
NFJ-P3/10	3 kW single-phase	plastic box
NFJ-M3/10	3 kW single-phase	metal box
NFJ-P4/10	kW three-phase	plastic box
NFJ-M4/10	4 kW three-phase	metal box

## AUTOMATIC CONTROL UNITS FOR DIESEL ENGINE PUMPS



DCA-109

- Includes automatic control
- Digital instruments.
- Texts in 6 languages.
- Internal clock for programming start/stop times over 24h period.
  - Weekly tests.
- Programmable start when battery charge low.



DCA-339

- Includes automatic control from remote contact (with possibility to program filling/emptying via float).
- Graphic display including every possible digital instrument and display mode.
- StageV diesel engine-ready CAN Bus SAE J1939 (with regeneration control, etc.).
- RS-232, RS-485 serial ports and USB2.0.
- Possibility to connect with GSM modem or GTW-4.0 gateway.
- Fully programmable inputs and outputs.
- Possibility to connect actuator with acceleration/deceleration command, both manual and automatic.
- Texts in 6 languages + 1 programmable.
- Fully programmable with ZW-SMART software.
- Programmable start when battery charge low.

## NF-1100 and NF-1300

## AUTOMATIC CONTROL PANELS FOR DIESEL ENGINE PUMPS



NF-1100 with DCA-109



NF-1300 with DCA-339

## ELECTRIC HEATERS FOR DIESEL ENGINES

- 230Vac or 110Vac power supply ( RA-0511/110 and RA-1011/110 only).
- Heaters equipped with internal operation thermostat.
- Equipped with coolant discharge plug.
- Protective electrophoretic coating.
- Protection rating IP54.
- 3-metre power cable.

Versions with GAS ½" thread

Type

RA-0511 (500 w)

RA-1011 (1000 w)

RA-0511/110 (500 w)

Version with hose connectors for  $\varnothing$  16 internal hose

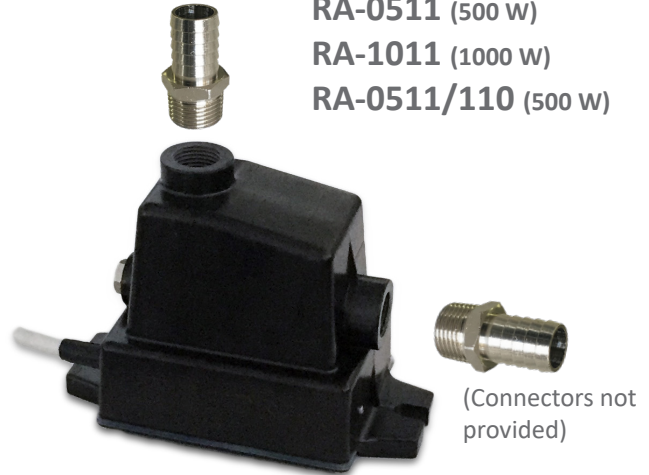
Type

RA-0500 (500 w)

RA-1000 (1000 w)

RA-1500 (1500 w)

Coolant drainage plug cooling



Versions with GAS ½" thread

Type

RA-0501 (500 w)

RA-1001 (1000 w)

RA-1501 (1500 w)

RA-2501 (2500 w)

RA-1011/110 (1000w)



# OIL HEATERS FOR DIESEL ENGINES

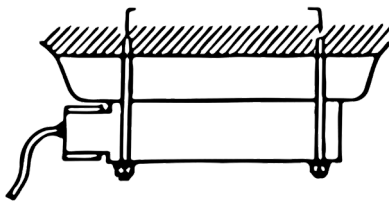
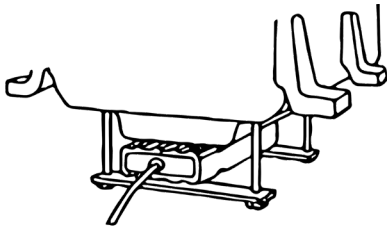
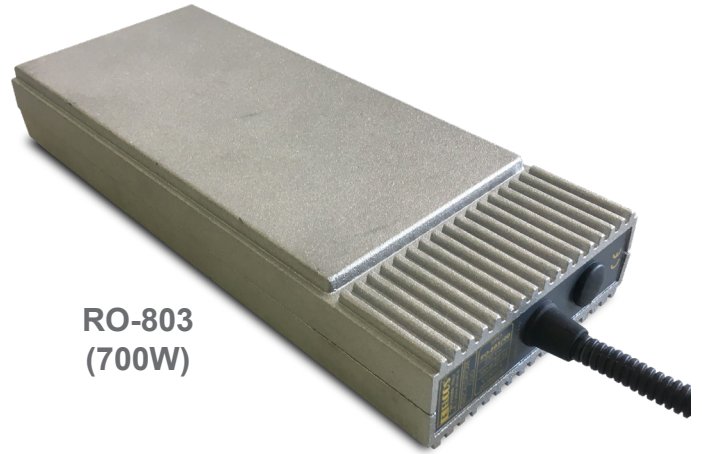
For applications in contact with the oil sump

- Power supply 230Vac.
- Heaters equipped with internal operation thermostat.
- Protection rating IP54.
- 3-metre power cable.

RO-405  
(350W)



RO-803  
(700W)



## STOP ELECTROMAGNETS

For intermittent service



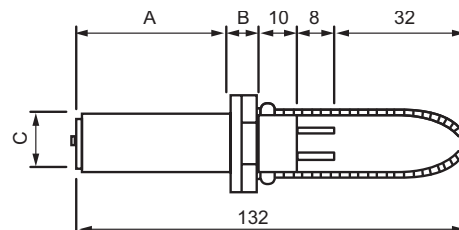
ESI-060/00

TYPE	STROKE mm	FORCE KG	
		At stroke start	At stroke end
ESI-046/00	35	1	25
ESI-060/00	50	5	50



ESI-046/00

## SPEED TRANSDUCERS



PICK-UP  
M16x1.5  
M18x1.5  
5/8"-W18-UNF  
3/4"-W16-UNF

TYPE	A	B	C
TM90-M16	68	8	M16x1.5
TM90-M18	66	9	M18x1.5
TM90-5/8	67	8	5/8"W18-UNF
TM90-3/4	66	9	3/4"W16-UNF

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