



SCF C900-D-NF



NFPA 20 – FM 1321/1323 - NFPA 70



DISRUPTIVE TECHNOLOGY

Wifi COMMUNICATION

EMBEDDED WEB

AMAZING FEATURES

COLOURFULL DISPLAY



DIESEL ENGINE DRIVEN CONFIGURABLE-PROGRAMMABLE FIRE PUMPS SET CONTROL PANEL

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MAIN FEATURES

Standards and technical regulations				
Compliance with standards and technical regulations	NFPA 20			
	FM 1321/1323			
	NFPA 70			
	UNE-EN 61439-1 Low-voltage switchgear			
Electrical features and batteries				
Incoming line voltage and frequency	From 200 VAC to 240 VAC 50-60Hz depending on model			
Nominal battery voltage	Ambivalent for 12 VDC or 24 VDC batteries (selectable via jumpers)			
Battery chargers:	SCA B12100	SCA B2450	SCA 24100	
Nominal charging current	10 ADC	5 A	10 A	
Battery capacity (C10) supported	Up to 200 Ah	Up to 100 Ah	Up to 200 Ah	
DIN power	138,0 W	138,0 W	138,0 W	
Efficiency	85% at rated power			
Float voltage deviation	< 1% from 0% to 90% of rated load current			
Types of batteries supported	Open fluid Pb	VRLA Pb (AGM or GEL)	NiCd-(9-18 elements)	NiCd-(10-20 elements)
Charging current deviation	< 5% from 50% to 99% of the float voltage			
Pump and system protections				
Total system alarms	65			
Design features				
Enclosure	IP65 Protected from total dust ingress			
	NEMA Type 2			
	Impact rating: IK10 (except for display)			
	Fireproof grade: Fire extinguishes <30s			
Display	TFT colour4.3" 480x272 px			
Buzzer	75 dB measured at 1m			
Wiring	Halogen free			
	Fire resistance: RZ1 according to EN50200 (830° during 90min)			
Pressure transducer	1 pressure measuring device using pressure transducers 0-100bar / 4-20mA It can be used to monitor the system pressure of the pump The demand pressure to start and stop the pump are configurable			
Pressure Switch	Monitored to prevent short-circuit or open-circuit faults			
Working temperatures	Recommended: -5°C to 40°C (tested up to 60°C)			
Relative humidity (non-condensing)	Functional: 20 to 95%.			
Cooling:	Natural convection			
Maximum altitude:	2000 m (Consult other altitudes up to 4,800 m)			
Pollution degree	2			
Overvoltage category:	II			
Electromagnetic environment	CEM-1			
Vibration protection	EN60068-2-6:2008			



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Pump start methods

Automatic Mode		Pressure switch line: Low system pressure
Manual Mode		Manometer: system pressure
Test Mode		Remote start contact
		"Battery A" and "Battery B" press buttons in front panel
		Deluge valve opening detection
		MANUAL start test button to evaluate the automatic start-up process

Measuring instruments

Batteries	2 voltmeters, battery voltage
	2 battery charge current ammeters
Engine	Engine cooling temperature
	Oil pressure
	Fuel tank level
	Engine speed in rpm
General System	1 Voltmeter: Supply voltage AC. Accuracy >1%
	1 Manometer: System pressure (4-20mA pressure sensor required)
	1 Flow Meter (manual flow input / pulse output / 4/ 20 mA sensor)

Other features

Monitoring of pressure switch lines with short-circuit and open-circuit alarms	Monitoring of connection with starter contactor coils with open-circuit and short-circuit alarms
Engine heating management via temperature reading	Cooling circuit operation control
Maintenance service management	Log download: Events, pressure history, pump curves.
Pump room temperature management	

Communications

Wifi	Embedded Web access
Ethernet: Modbus / TCP-IP	E-IP optional module not included as standard
RS485 Modbus / RTU	E-485 optional module not included as standard
Voltage free contacts	6 potential free double relays: 30 VDC - 0.3 AAC 1 potential free double relay 230 VDC-10 AAC

Languages

ENGLISH/ ESPAÑOL / FRANÇAIS / ITALIANO / PORTUGUES / DEUTSCH / SVENSKT / NEDERLANDESE

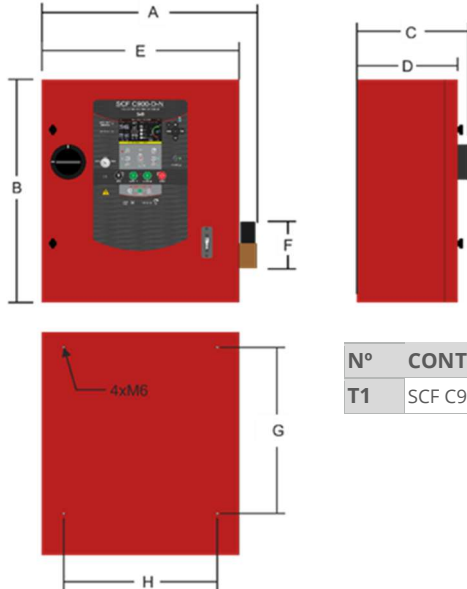


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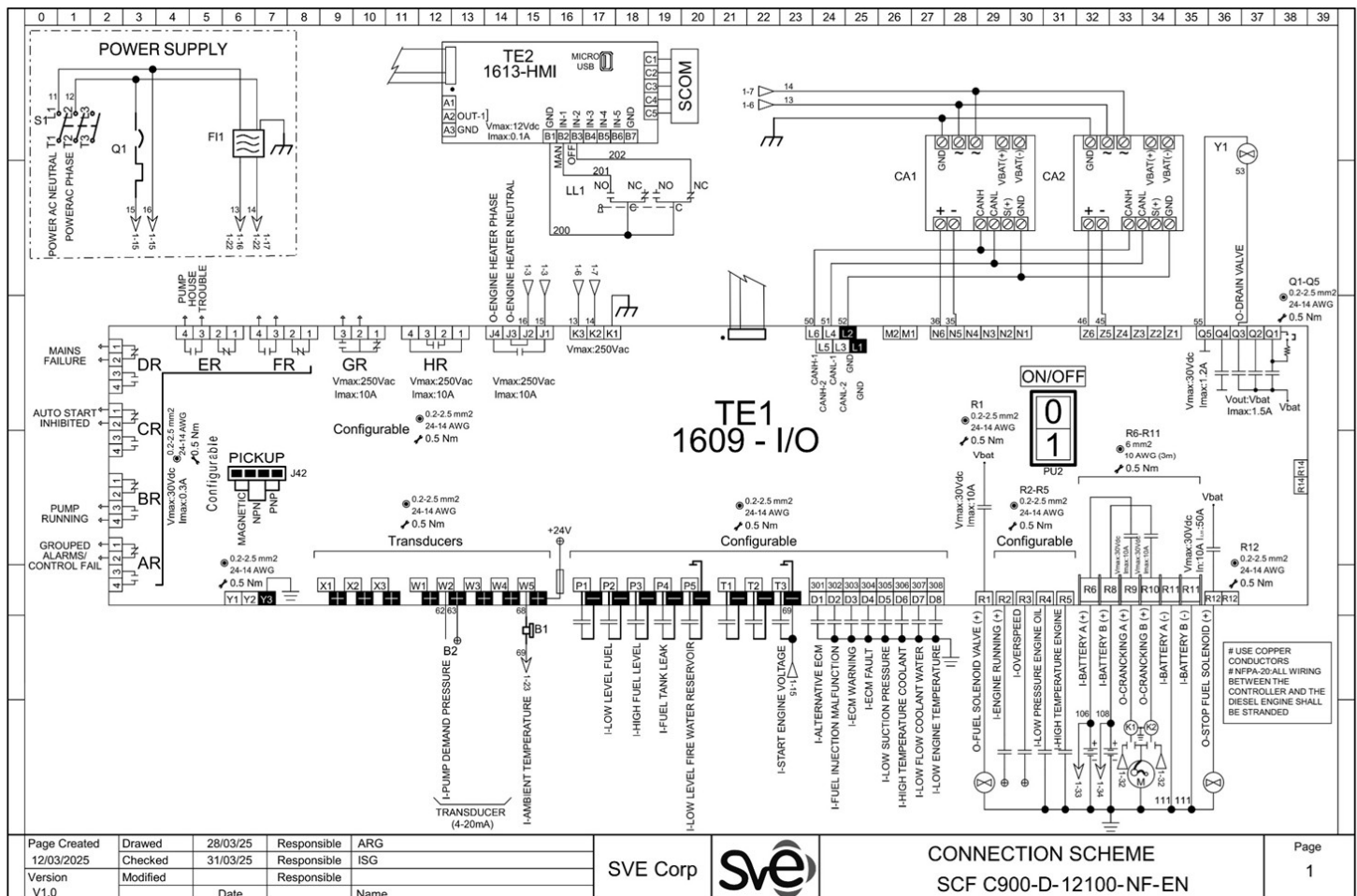


DIMENSIONS AND FASTENERS



N°	CONTROL PANEL	A	B	C	D	E	F	G	H	Weight
T1	SCF C900-D-NF 12100/ 24050 / 24100	490	510	250	210	450	140	380	350	15.6 kg

WIRING DIAGRAM



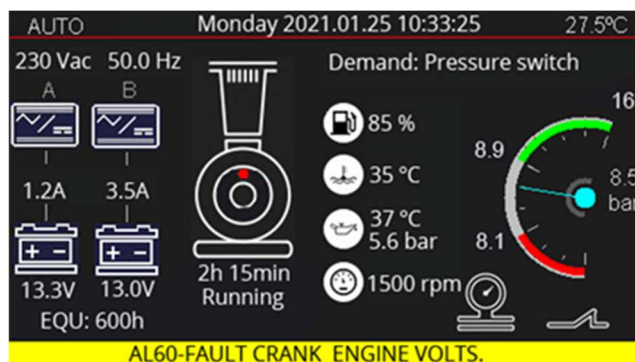
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CONTROL PANEL DISPLAY

Main Screen



Operating mode	Current date and time (accuracy s)
Pump room temperature	Mains voltage and frequency
Battery voltage and charger current	Cumulative pump operating hours and minutes
Time remaining until battery equalisation	Pump demand transducer and pressure switch
Engine measurement instruments	Alarm display range

Other Screens

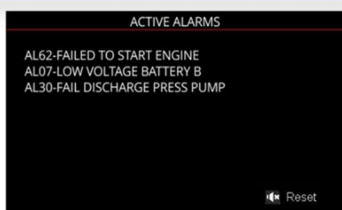
Main Menu



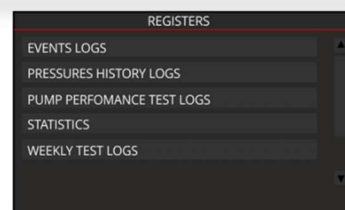
Wifi Communication



System Alarms



Event logs, pressures and pump tests



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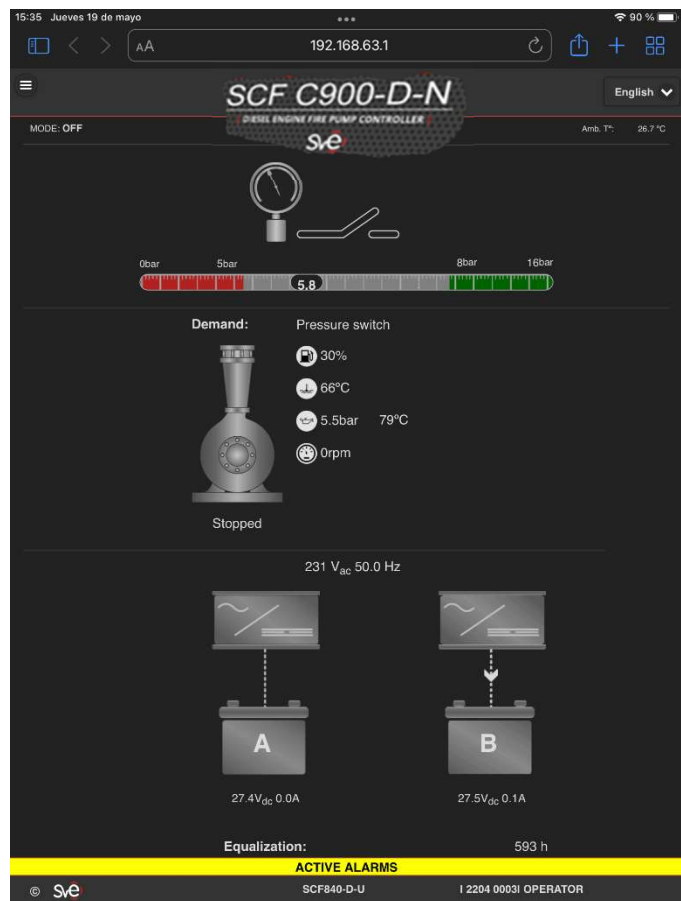
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EMBEDDED WEB DISPLAY

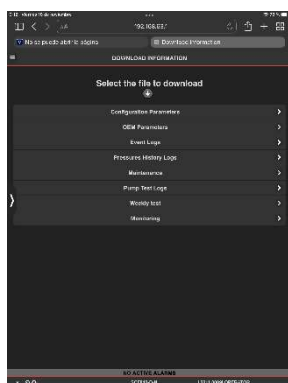
Available information

OPERATING MODE
PUMP ROOM TEMPERATURE
BATTERY VOLTAGE AND CHARGER CURRENT
REMAINING TIME UNTIL BATTERY EQUALISATION
MOTOR QUANTITY MEASURING INSTRUMENTS
CURRENT DATE AND TIME (ACCURACY: S)
MAINS VOLTAGE AND FREQUENCY
ACCUMULATED PUMP RUNNING HOURS AND MINUTES
PUMP DEMAND TRANSDUCER AND PRESSURE SWITCH
ALARM DISPLAY BAND

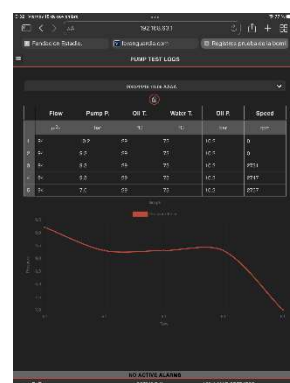


Other Screens

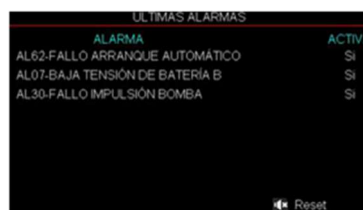
Downloading Logs



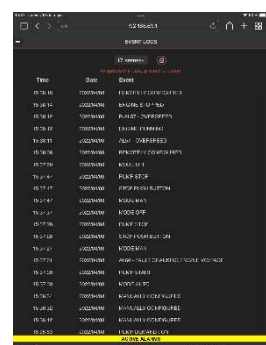
Pump Test Logs



System Alarms



Events Logs





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