



Kit ETS Advanced

Fleet management system

KF01380



Function

The system, installed on vehicles such as self-propelled industrial trucks or electric traction industrial vehicles, with endothermic or hybrid engines compliant with the 2006/42 / EC machinery directive, is able to perform the following functions:

- Satellite localisation
- Shock detection
- Battery analysis
- Access control
- Data transmission via SIM GPRS 2G, LTE-M, WiFi

Directives and reference standards

Directive CE 89/336
(electrom.compatib.)
Directive 86663, 89240
Harmonised Norms 1726-1, 1726-2
EN1175-1-2-3
EN12895:2015 (electrom.compatib.)
CEI EN 60240-1
ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-3 V2.1.1 (2019-03).

ETSI EN 301 489-17 V3.2.2 (2019-12)
ETSI EN 301 489-52 V1.1.0 (2016-11)
ETSI EN 300 328 V2.2.2 (2019-07)
ETSI EN 303 413 V1.1.1 (2017-06)
ETSI EN 301 511 V12.5.1 (2017-03)
ETSI EN 301 908-1 V11.1.1 (2016-07)
ETSI EN 300 330 V2.1.1 (2017-02)

Approvals and certificates

CE Conformity
RED Conformity

KIT Composition

Products		Accessories	
Code	Description	Code	Description
XF01380	ETS Advanced	R100010	RFID - UID Badge
X400512	ETS DN	C002190	2-strand skein (1m, purple) with minifit jr. female crimp terminal
R100070	GPS/GLONASS/BeiDou/QZSS/Galileo Antenna <i>Prod:</i> 2J Antennas <i>Model:</i> 2J4D01MPCFz	C002340	ETS vehicle wiring
		C002080	ETS Touch wiring

Mechanical specifications

Dimensions	85/110x56x21 mm	Material	ABS
Weight	170 g		

Electrical specifications

Power Supply	from 4,75 to 5,5 V	Power consumption	2,5 W
RTC Battery	20 mAh	Int. battery 1C Lipo 3,7V	550 mAh
Micro SD memory slot (FAT, FAT16, FAT32)	Y	Int. battery charger with maintenance function	Y
SIM card Slot	Y	Autonomy with int. battery	from 3 to 6 h
Triaxial accelerometer	Y	NFC reader	Y
CAN BUS (2A & 2B) Interf.	Y	USB (Device) Interf.	Y

GPRS/LTE - GPS/GNSS Module

Power consumption	from 1 to 2 W	2G 4G	850/900/1800/1900 Mhz 2100/1900/1800/AWS 1700/850/900/700/800/850/700 Mhz
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WiFi Module

FCC/CE/IC Certified 2.4-Ghz IEEE 802.11b/g Transceiver	Y	Channels Receive Sensitivity	from 1 to 14 -83 dBm
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Indicators/Operating principles

Logout	Red LED fixed	Authentication in progress	Yellow LED fixed
Alarm	Red LED flashing	Warning	Yellow LED flashing
Login/Operative	Green LED fixed	Auto-logout	Green LED flashing Yellow LED fixed
RFID Authentication	Blue central LED fixed	RFID detected correctly	Green central LED fixed
Bootloader	Red, yellow, green LED fixed	Buzzer	Intermittent on alarm or warning Prolonged sound (1 s) when powered for the 1 st time

Mechanical specifications

Dimensions	85/110x56x21 mm	Material	ABS
Weight	110 g	Impact resistance	TBT (EN 62262)

Electrical specifications

Power Supply	from 10 to 120 V	Power consumption	13 W
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INPUT

Positive digital	2	Analogic 0-10 V	1
Negative digital	2	Analogic 0-5 V	1
Positive input activation threshold	1,7 V	Negative input activation threshold	0,5 V

OUTPUT

NO Relè output	3
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Memories/Processor

Flash	256 KB	RAM	64 KB
Eeprom	128 KB	Processor frequency	from 0,032 to 120 MHz