INSTALLATION MANUAL

CONSOLE MAGLINK LX

INDEX

REVISION INDEX

DATE	REVISION NUMBER	DESCRIPTION	Firmware revision
04-03-2014	1	INITIAL RELEASE	1.0.0
26-02-2015	2	Inversion of com ports	2.0.0
17-03-2015	3	Added application description section	2.0.0
17-04-2015	4	Added notification and certification	2.1.x
22-04-2015	5	New test report, certification and notification	2.1.x
15-07-2015	6	Manual update procedure; reconciliation info, shift report; stock printout; send log information for support; program description	2.2.x

INTRODUCTION

The handbook gives all the instructions for installation and use of Maglink LX console.

GENERAL WARNINGS

- Please read carefully the instructions given in this handbook before working on this equipment.
- The manufacture is not responsible of any operation performed not mentioned in this handbook.
- In case of failure or faulty operations, please refer to authorized people in charge for maintenance or directly to the manufacturer.
- The manufacturer refuses all responsibility for any eventual injury and/or damage to things caused by the missing observation of safety requirements.
- The assigned personnel is required to know all the safety requirements relative to this equipment.
- In case of doubts about functioning of the equipment please refer to authorized people for maintenance or directly to the manufacturer.
- Every tampering of the equipment relieves the manufacturer from any responsibility in front of competent authorities.

This product is used in fuel tanks and in hazardous areas for risk of explosion and fire. Subterranean leakage of fuel tanks may cause serious damages to environment and people injury.

Improper use, not in accordance with the requirements, may affect the safety of the product

Note: Start Italiana Srl, in respect of its quality duties may modify its production and the data shown on this handbook. This manual cannot be reproduced, totally and neither partially, without authorization.

This product complies with EU Directive 2002/96/EC.
The crossed-bin symbol on the device indicates that the product, at the end of its lifecycle, should be disposed separately from household waste, must be brought to an electrical and electronic equipment collection point.

DESCRIPTION

Console for monitoring level gauge and tanks alarms. Bus management up to 32 probes, 16 ON-OFF sensors, 4 slave displays, 2 channel each, 4 integrated relays and other 16 relays on the bus with outputs and programmable events, 20 relays in total. Can be interfaced with the major management systems located in petrol stations.

Main features	
Supply	100-240 V~, 50/60Hz
Consumption	15 VA
Working temperature	-10 °C ÷ +50 °C
Relative humidity	From 5% to 95% (non condensing)
Number of probes	32
Number of ON-OFF sensors type XLR	16
Number of ON-OFF reed sensors	6 (only with Dipswitch 2 ON)
Number of slave display 2 ch	4
Relay output	20 (4 integrated + additional slave 16 relay card)
Low power relay output	0.5A, 33V~ or 2A, 30Vdc
Probes serial communication with	RS485
Host Communication	RS232
Printer communication and software for console configuration	RS232
Connection with software for console configuration	TCP/IP
Enclosure	Plastic
Protection	IP20
Dimensions	265x190x95 mm
Probes output power supply	12Vdc, 100mA for each probe output, MR3 and MR4 connectors

COMPATIBLE PROBES MODEL LIST

The following probes models can be connected to MAGLINK LX console:

- XMT EXD 485 polling mode
- XMT SI 485 polling mode
- XMT SI RF
- XLR SI 485 polling mode

And auxiliary equipment:

- Slave relay boards
- Local or remote printer
- Reed sensors

INSTALLATION

- If mixed with air, the flammable vapors may cause explosion. Hazardous areas may be originated therefore by the presence of gas or vapors.
- Explosions or fires may cause damage, even lethal.
- This console is not explosion proof.
- Do not install the console in hazardous area.
- Use only fuse 250V – 1A on input power supply

INSTALLATION SITE

Regarding the installation site, it is necessary to consider that the console must be protected against vibrations and extreme climatic conditions (in particular high/low temperatures, humidity, etc.) which may damage the electrical circuits. Please be sure to install in an area protected from humidity and sprinkles of water.

220Vac ELECTRICAL CONNECTION

To realize the electrical connection please proceed as follow:

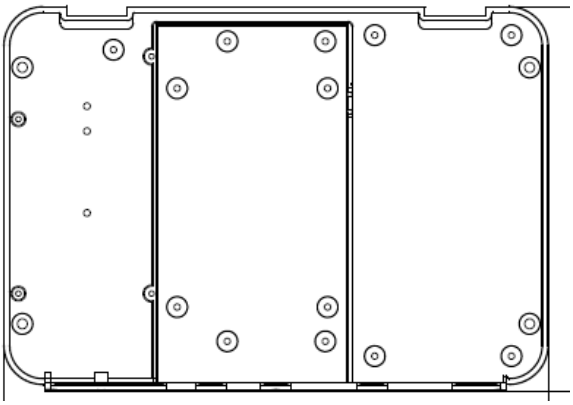
- Switch off all the power switches on the electrical board panel.
- Connect between board panel and the console using the appropriate connectors.
- To connect driving force, please use cable with 3 wires whose section is at least 1.5 mm^2 (phase, neutral, earth) adequately protected. Supply cable must be approved according to standards IEC 60227 or IEC 60245
- Be sure that the power plug used has ground round connection and that there is a protection device acting against short circuits and overloads.
- The power cable must be always easy recognizable and reachable since it has disconnecting function too.

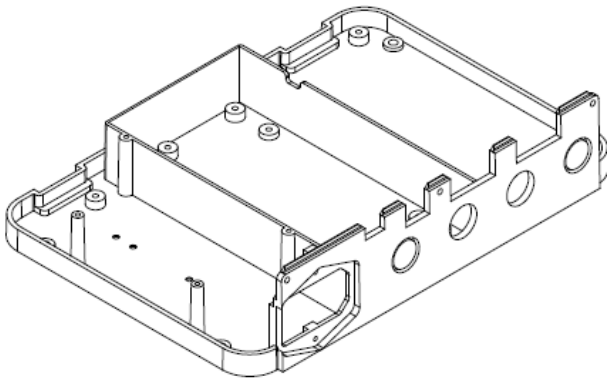
Regarding probes connection, please refer to chapter "Probes connection".

- There is high voltage into the console which may be lethal.
- The equipment installed in hazardous areas shall be explosion-proof or intrinsically safe according to the degree of protection required.

INSTALLATION PROCEDURE

Fix the console to the wall using the holes on the plastic enclosure. To fix the console to the wall use bolt sleeves.





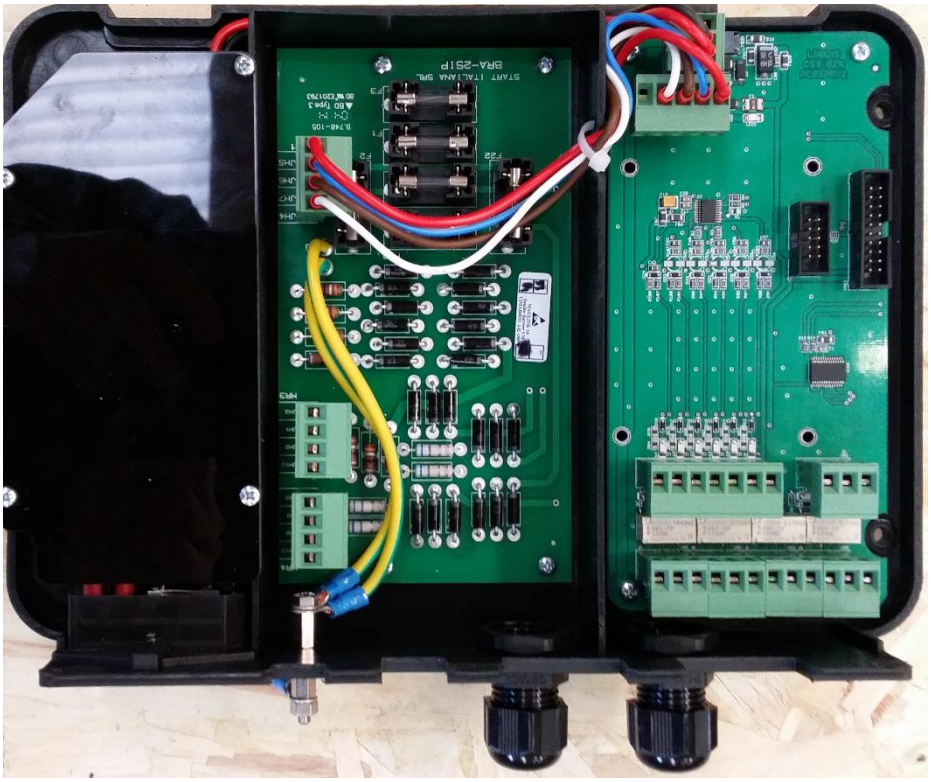
Bottom side.

PRODUCT CLEANING

For product cleaning must be used a cloth dampened only with water and common detergents non aggressive without use of any acids, chemical solvents or organic substances.

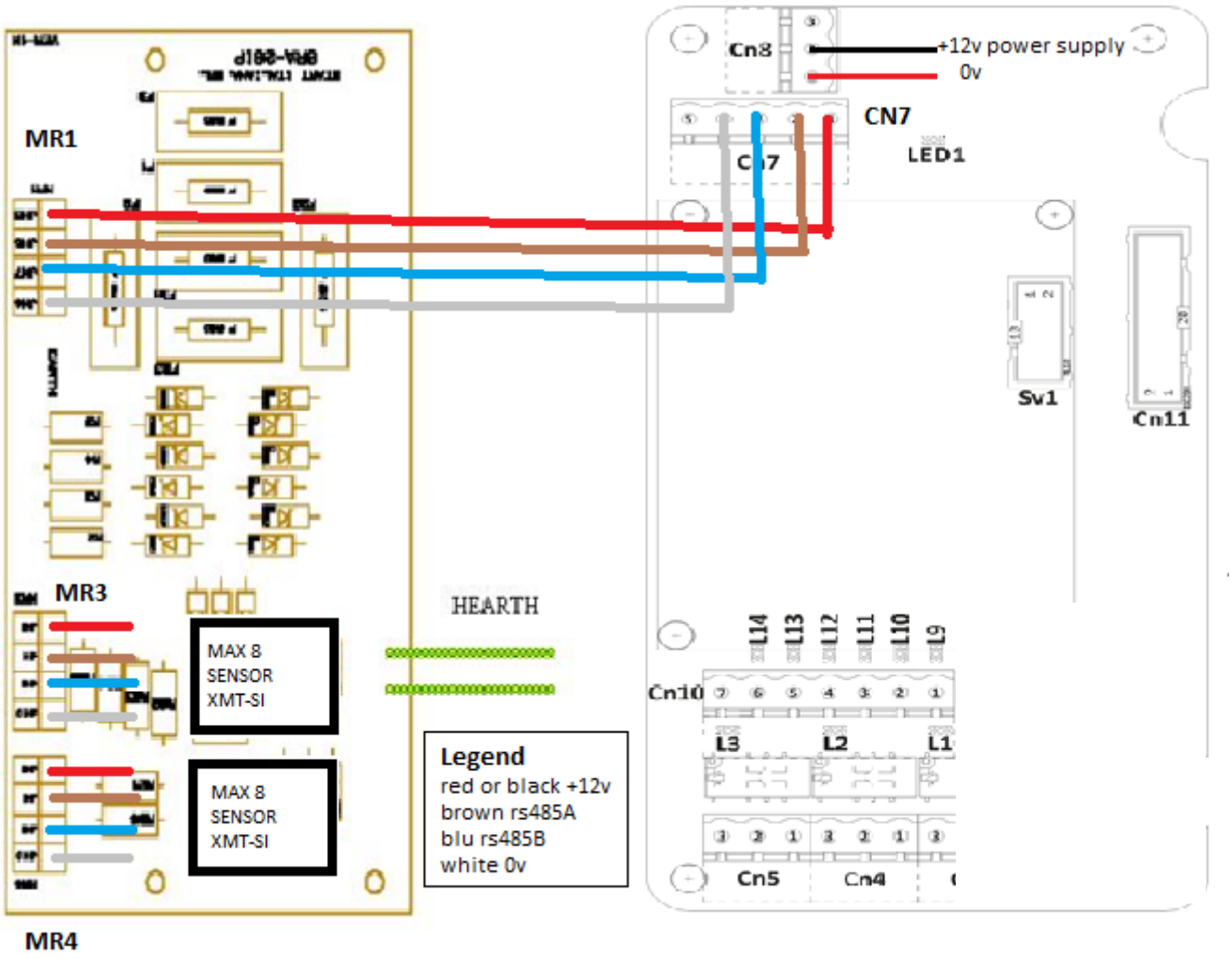
MAIN COMPONENTS

Power supply, intrinsically safe barrier and main board



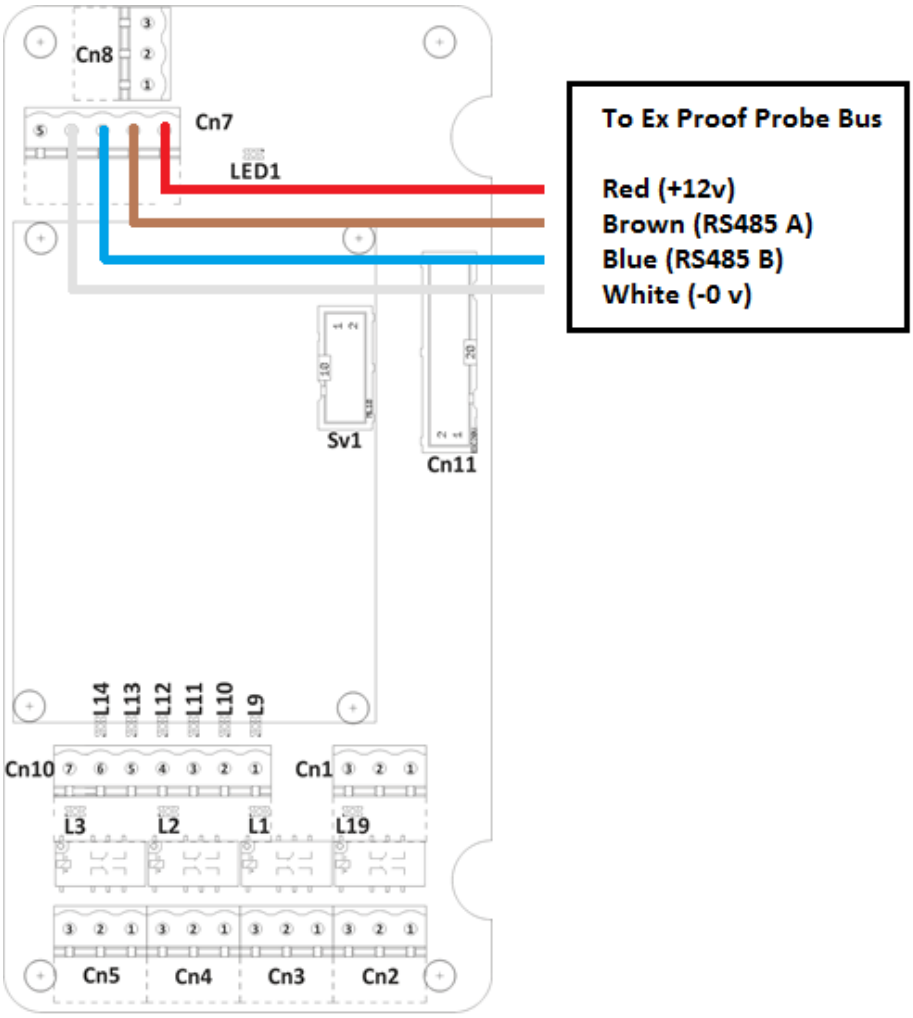
CONNECTION TO INTRINSICALLY SAFE PROBES MODEL XMT-SI-485 TO BARRIER MODEL BRA-2SIP

If sensors to be connected are more than 16, n. 2 BRA-2SIP are installed and additional external barriers must be used since one barrier can supply up to 8 sensors only.

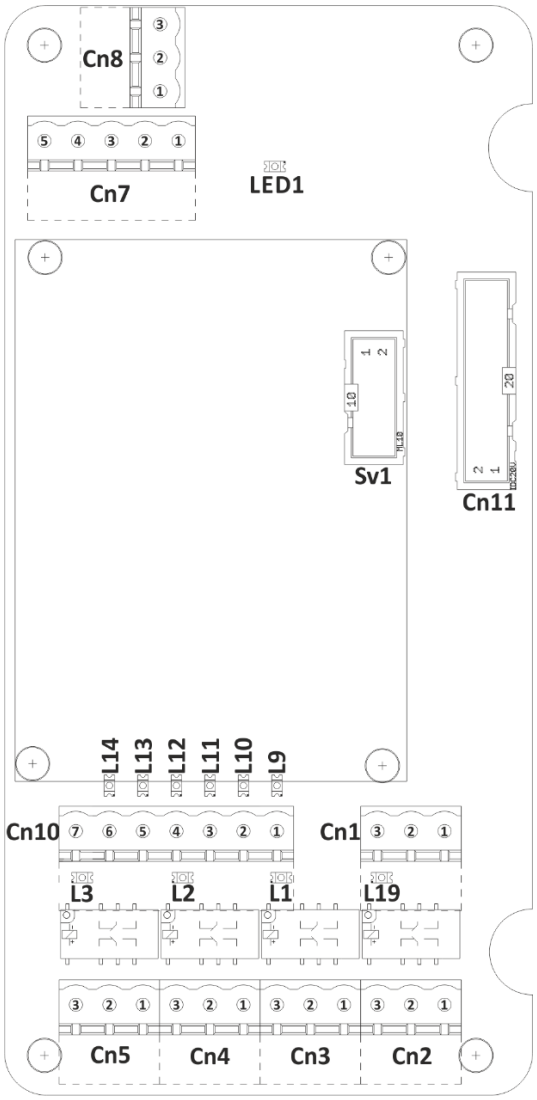


MR3		MR4	
JH3	RED (+12volt)	JH3	RED (+12volt)
JH1	BROWN (RS485A)	JH1	BROWN (RS485A)
JH2	BLUE (RS485B)	JH2	BLUE (RS485B)
JH10	WHITE (-0 volt)	JH10	WHITE (-0 volt)
MR1	connection to CN7 (Main Board Connection)		

PROBES CONNECTIONS



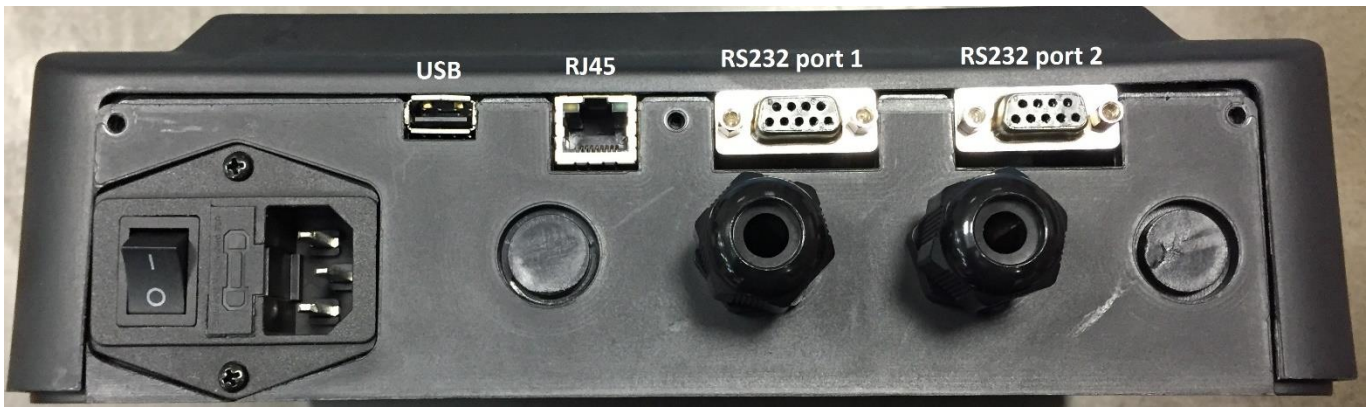
MAGLINK LX SLAVE CONNECTORS



CN1	: CANBUS connector 1- CANH 2- CANL 3- GND
CN2	: Relay1 connector 1- Normaly open 2- Common 3- Normaly Closed
CN3	: Relay2 connector 1- Normaly open 2- Common 3- Normaly Closed
CN4	: Relay3 connector 1- Normaly open 2- Common 3- Normaly Closed
CN5	: Relay4 connector 1- Normaly open 2- Common 3- Normaly Closed
CN11	: Main card connector
SV1	: Modem connector
CN7	: RS485 port 1- Probe power output 2- RS485-A 3- RS485-B 4- GND 5- NC
CN8	: Power input(+13.7V) 1- NC 2- GND 3- +13.7V
LED1	: Probe power status led
L19	: Relay1 status led
L1	: Relay2 status led
L2	: Relay3 status led
L3	: Relay4 status led
L9	: Input6 status led
L10	: Input5 status led
L11	: Input4 status led
L12	: Input3 status led
L13	: Input2 status led
L14	: Input1 status led

CONSOLE VIA RS232 HOST CONNECTION

For distances up to 15mt the remote connection between MAGLINK LX and host can be done using serial link RS232C as per the indications given but the system to which it is connected.



USB

RJ45 used to connect MagLink LX to local network for web access configuration (WebConfig). If you connect directly to other computer remember to use a cross cable.

RS232 PORT 1 For software management host connection, printer connection

RS232 PORT 2

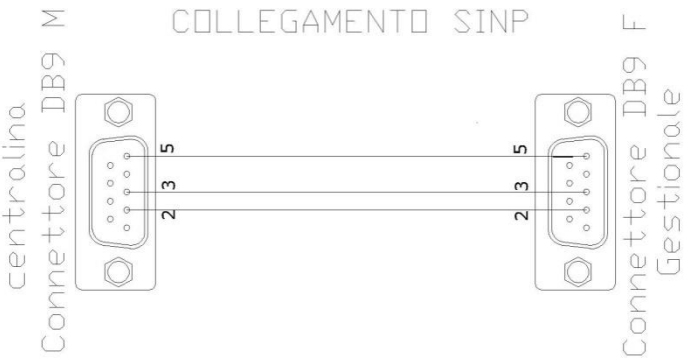
MANAGEMENT SYSTEMS COMMON CONNECTION

MAGLINK LX can be connected to several management systems (PIGNONE; GILBARCO; TOKHEIM; DRESSER; Probe Emulation; DIALOG; RETALIX; DOMS; ORPAK; TOREX; TLG-SMITHS).

ES:

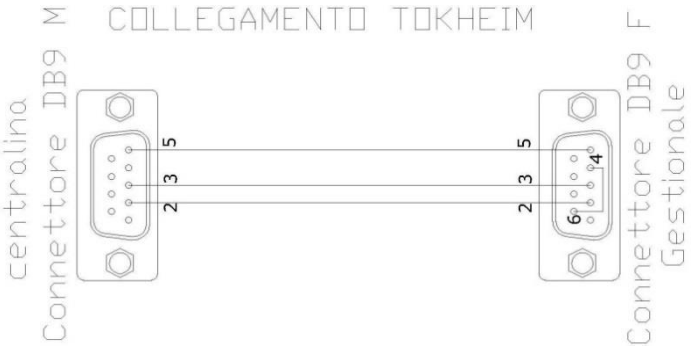
DRESSER WAYNE SINP:

CONSOLE		SYSTEM
PIN 2	>	PIN 2
PIN 3	>	PIN 3
PIN 5	>	PIN 5



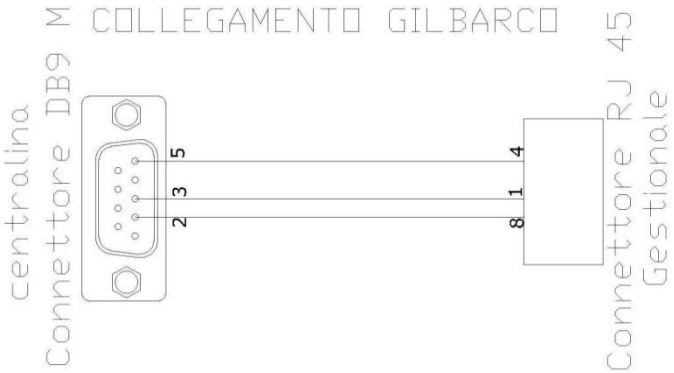
TOKHEIM and DIALOG:

CONSOLE		SYSTEM
PIN 2	>	PIN 2
PIN 3	>	PIN 3
PIN 5	>	PIN 5
PIN 4	>	PIN 6



GILBARCO Passport Europe (9600 O71):

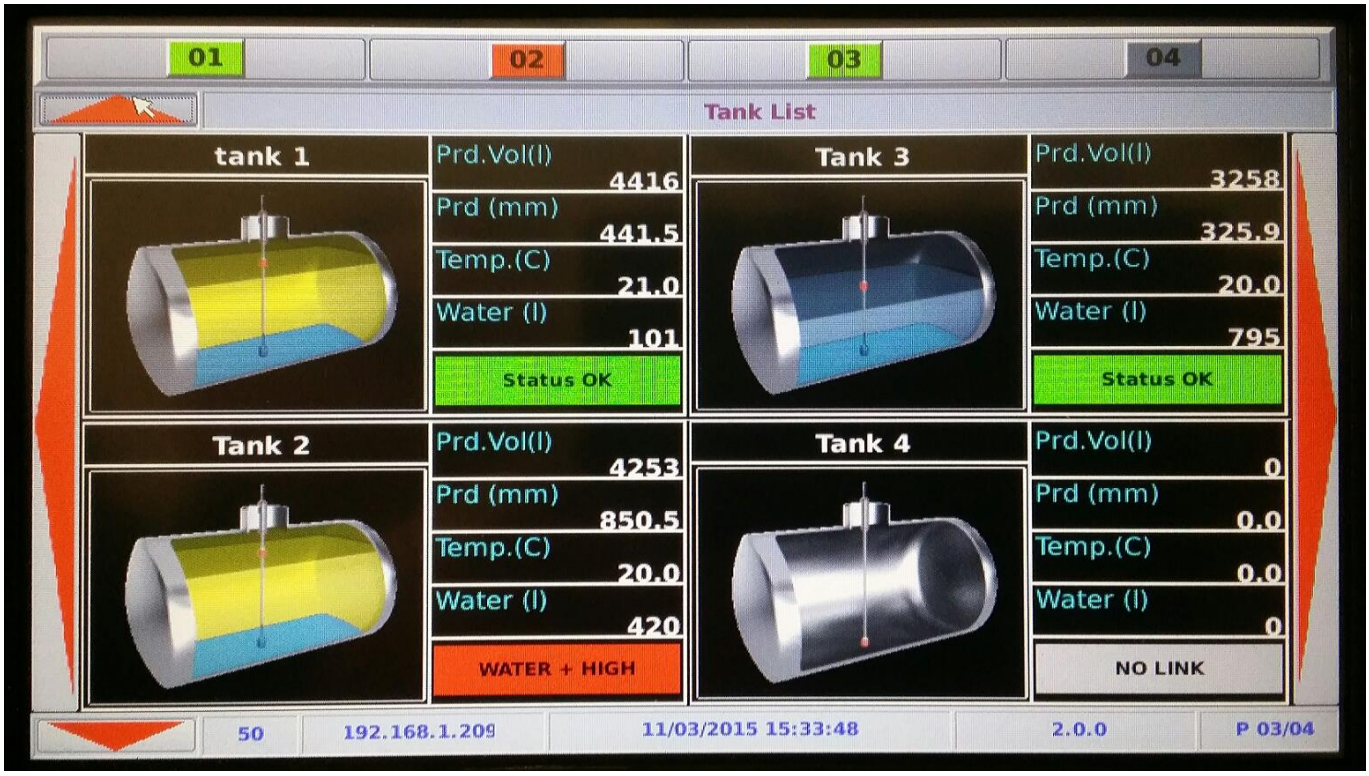
CONSOLE		SYSTEM
PIN 2	>	PIN 8
PIN 3	>	PIN 1
PIN 5	>	PIN 4



DOMS	(9600 E71)
DIALOG	(1200 N81)
TOREX	(2400 E71)

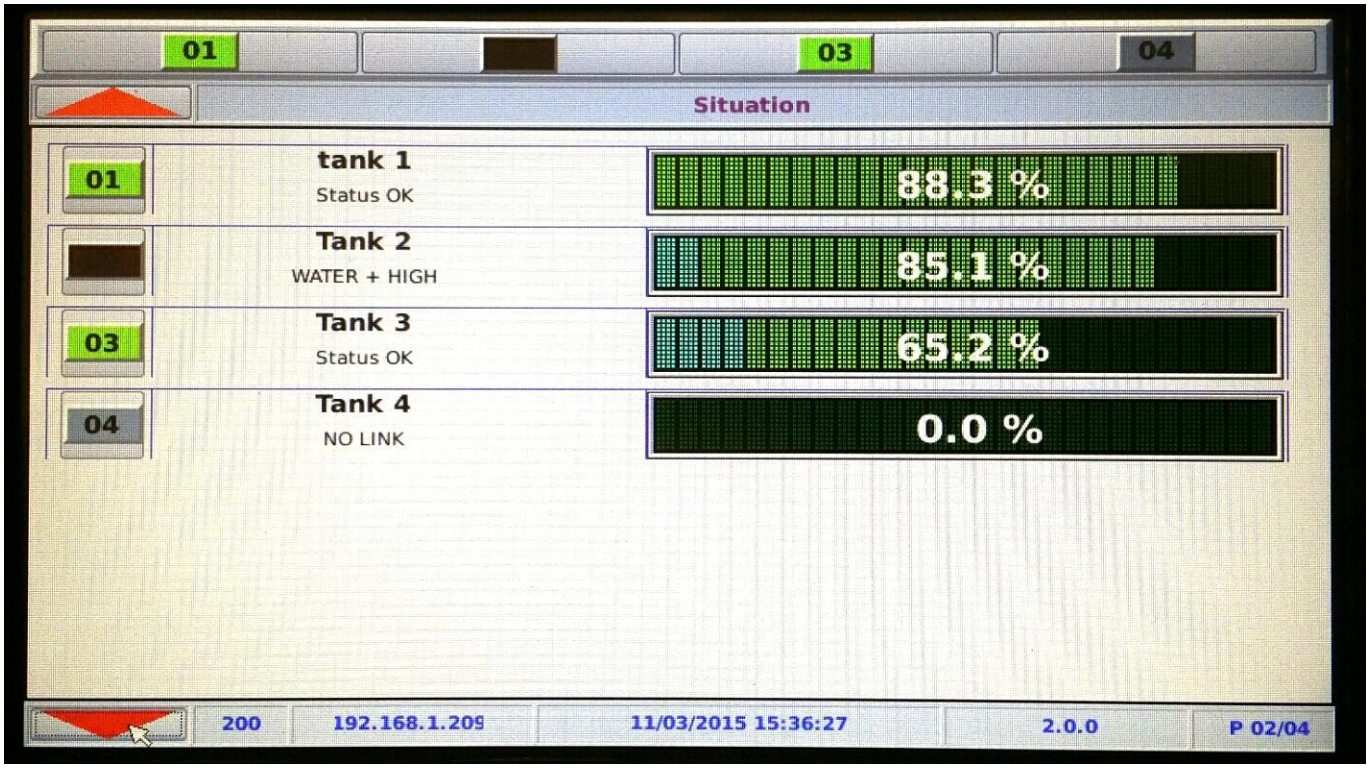
PROGRAM DESCRIPTION

The console is provided with a Qt application that handles all fundamental values for optimal tank management.
The application is very easy and user friendly. It has a sort of circular menu from which the user can navigate through all available functions. The application first page is the following:

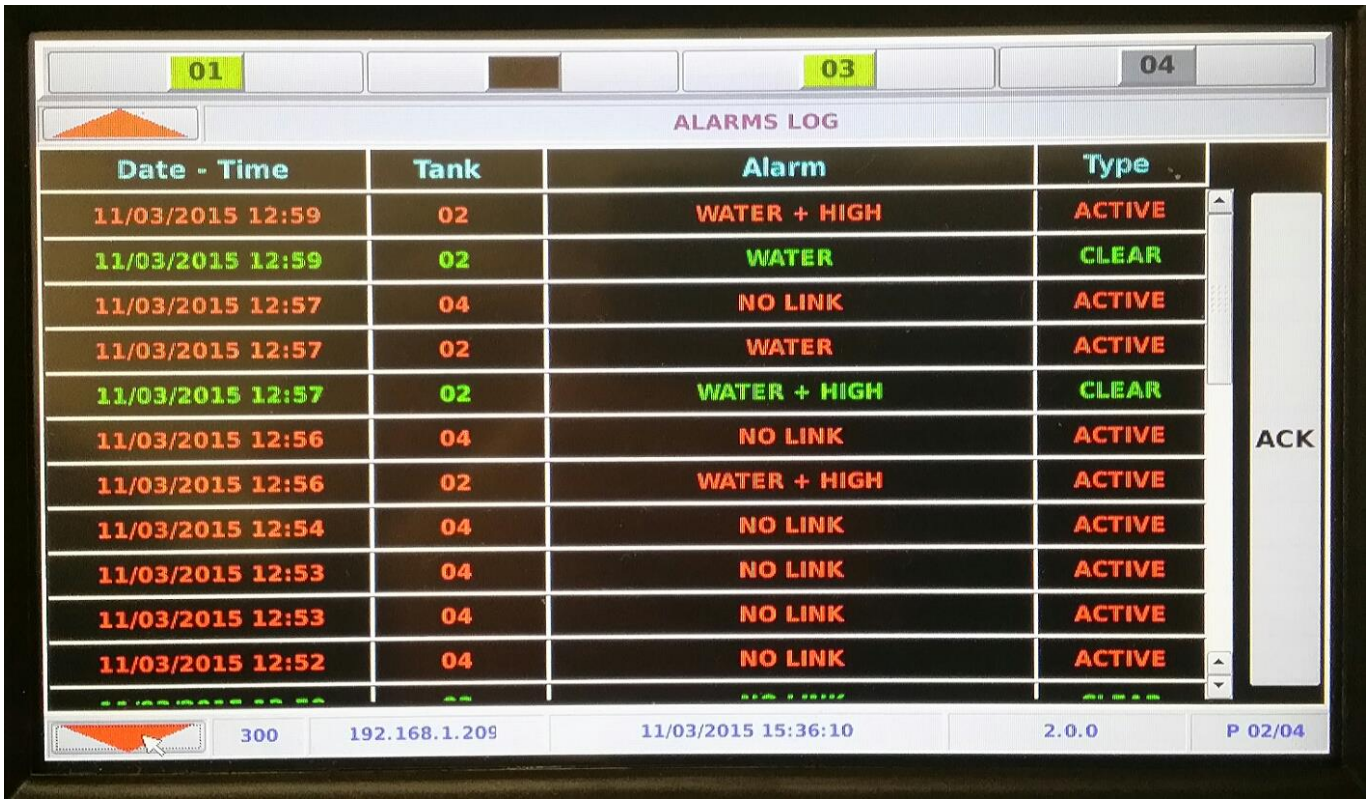


In this page it's summarized all main tank information. At the very top you'll find configured tank list. The page can contain a maximum of 4 tanks, if you want to see other tanks you must click on the big red right/left arrow button that you find at the right/left edge of the touch screen.
Console functions are accessible by clicking up/down red arrow button that you find near the top left corner and bottom left corner of the touch screen. Use these up/down arrows button to navigate through all console function as shown below:

Tank summery with percentage tank load.

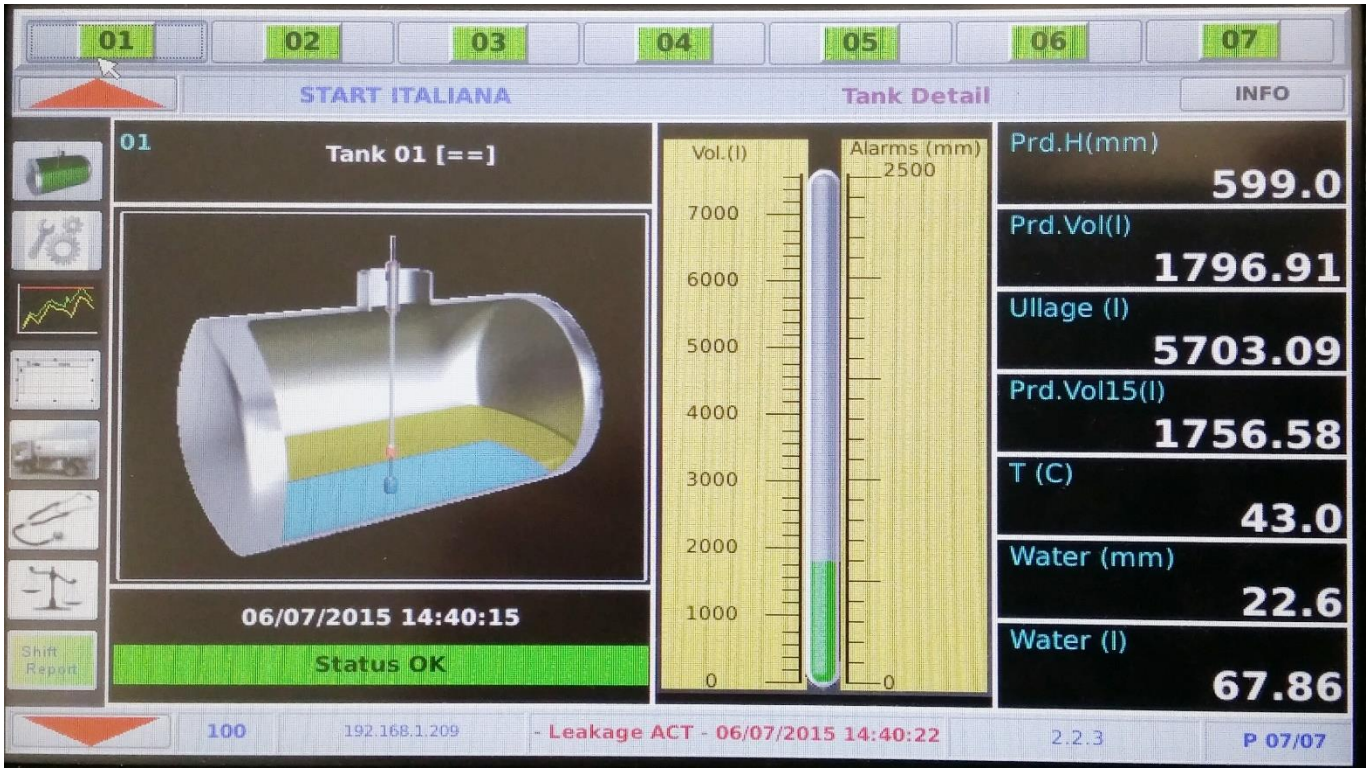


Alarm log.

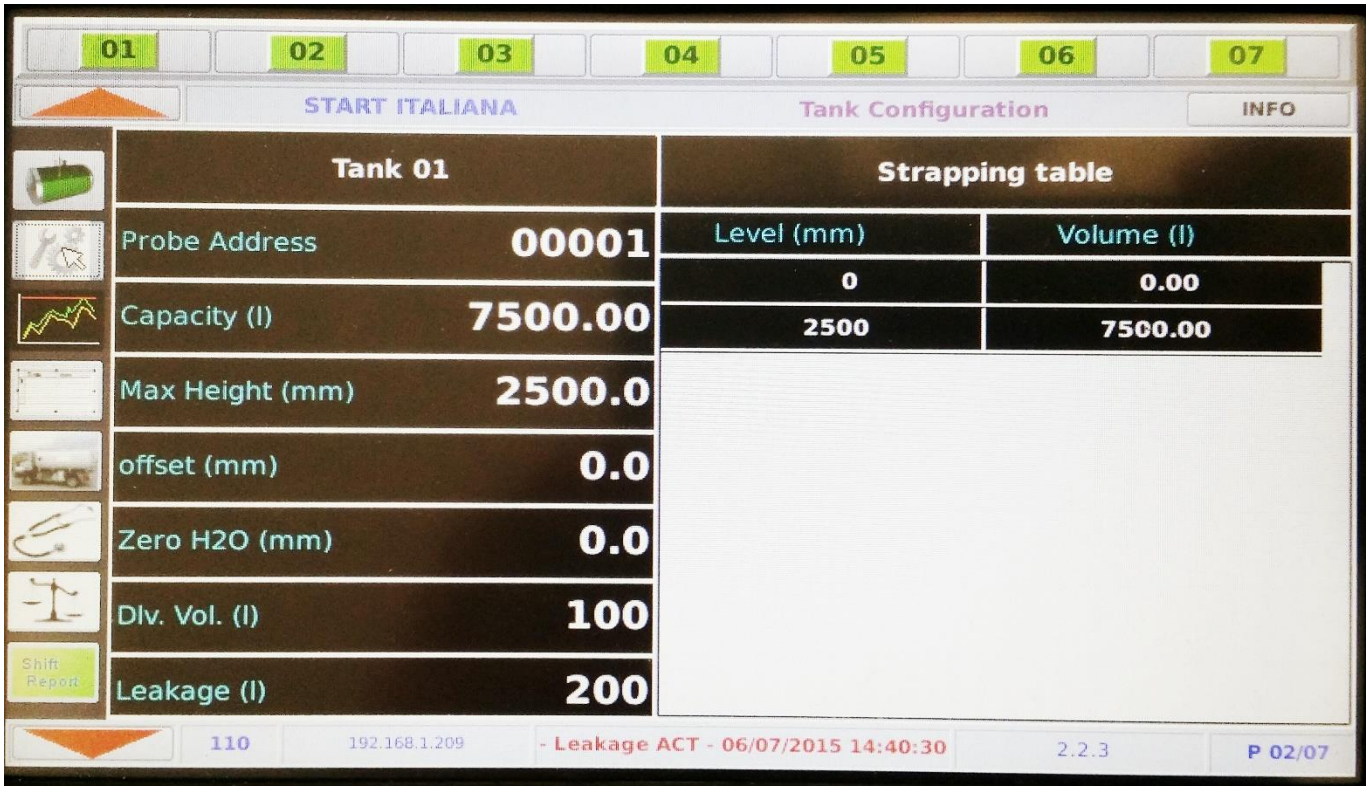


To acknowledge active alarms click on the ACK button to the right of the alarm table.
List fuel represents the tank, fuel, meter configuration for those who have dispensing system connected to the console.
To access detail tank information you can either click on the tank number or directly on the tank image.

Detail tank view. Alarms are graphically reported beside the green level product indicator.

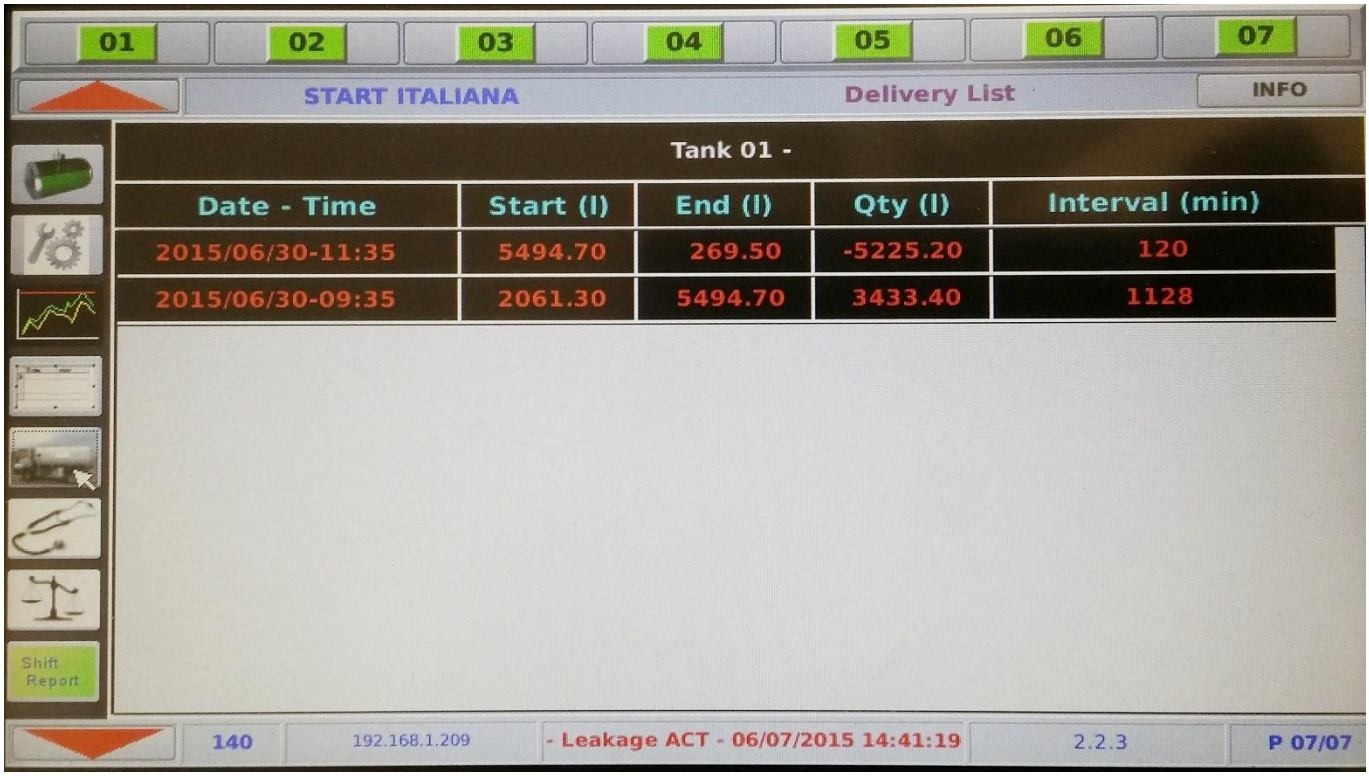


Tank configuration settings.

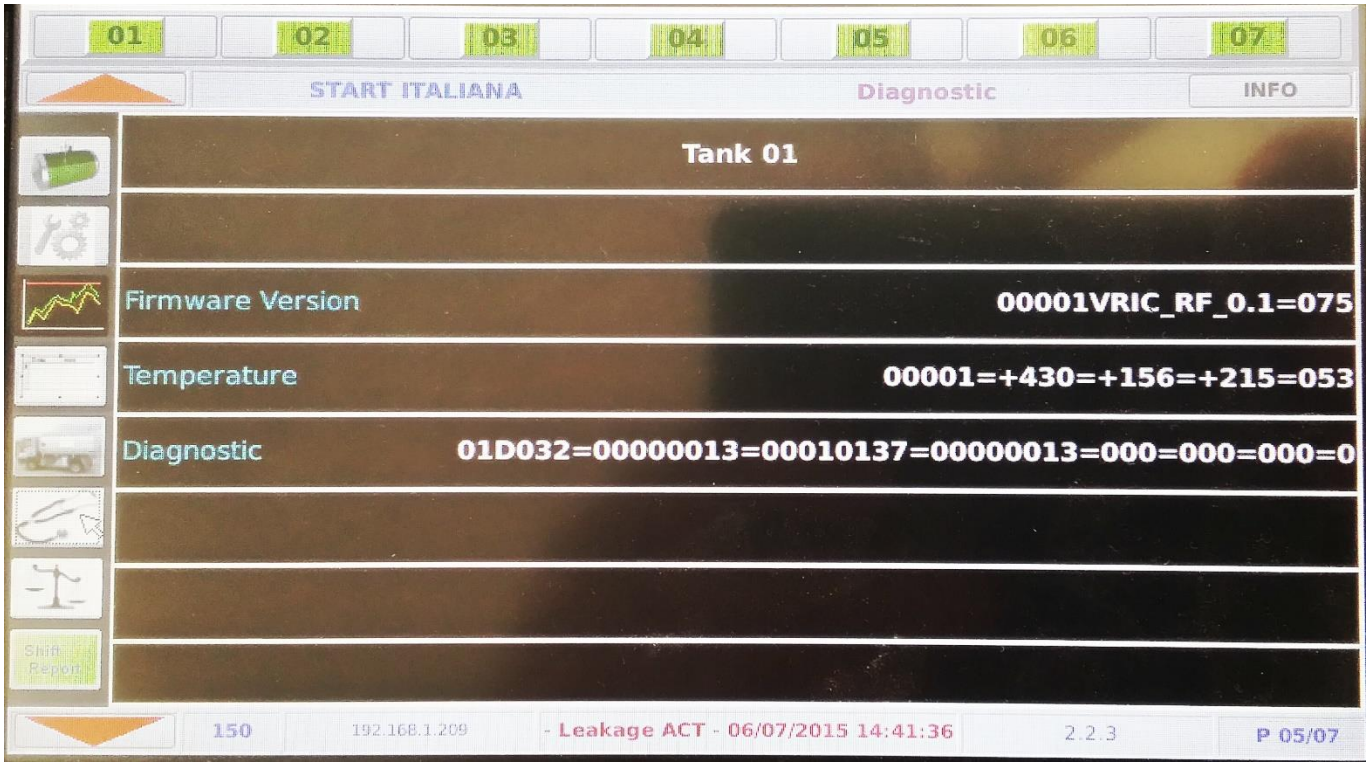


History list

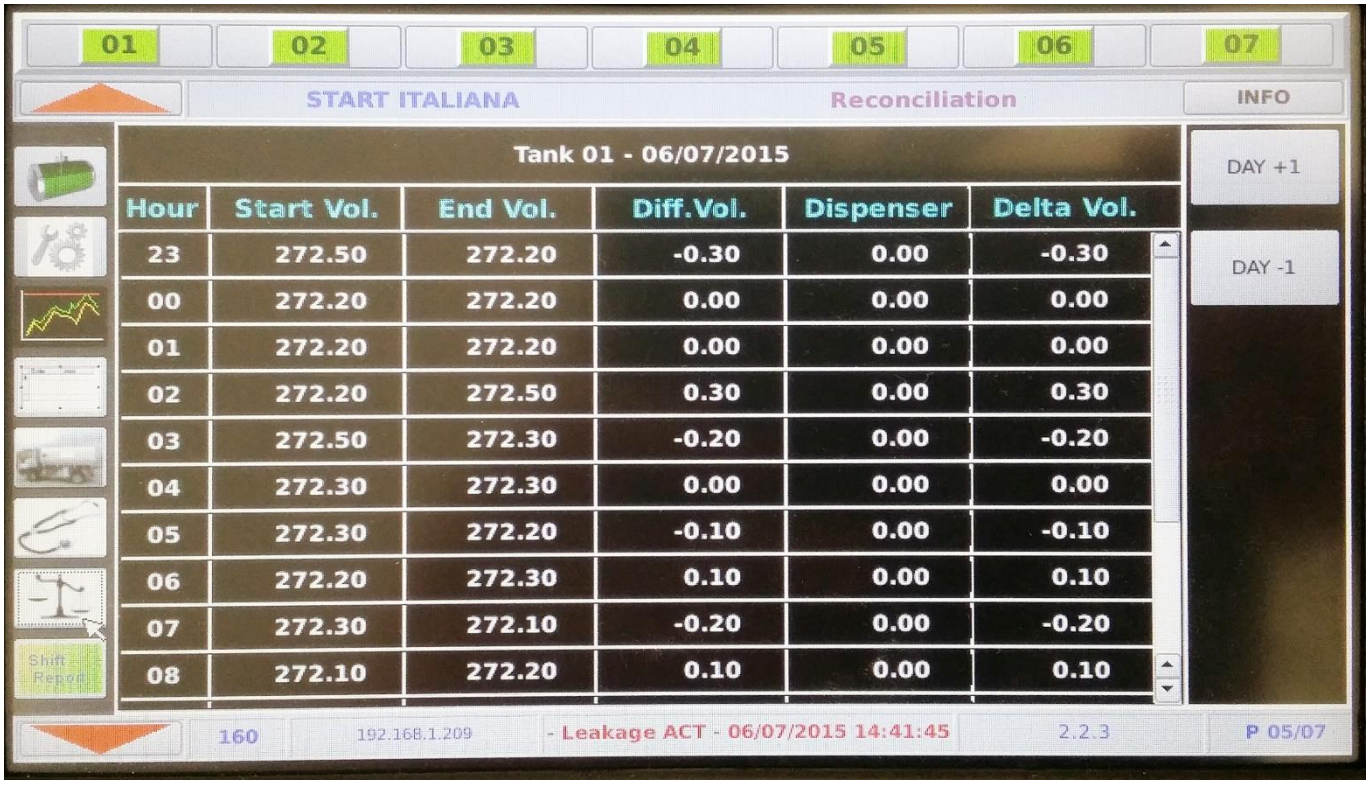
Delivery list



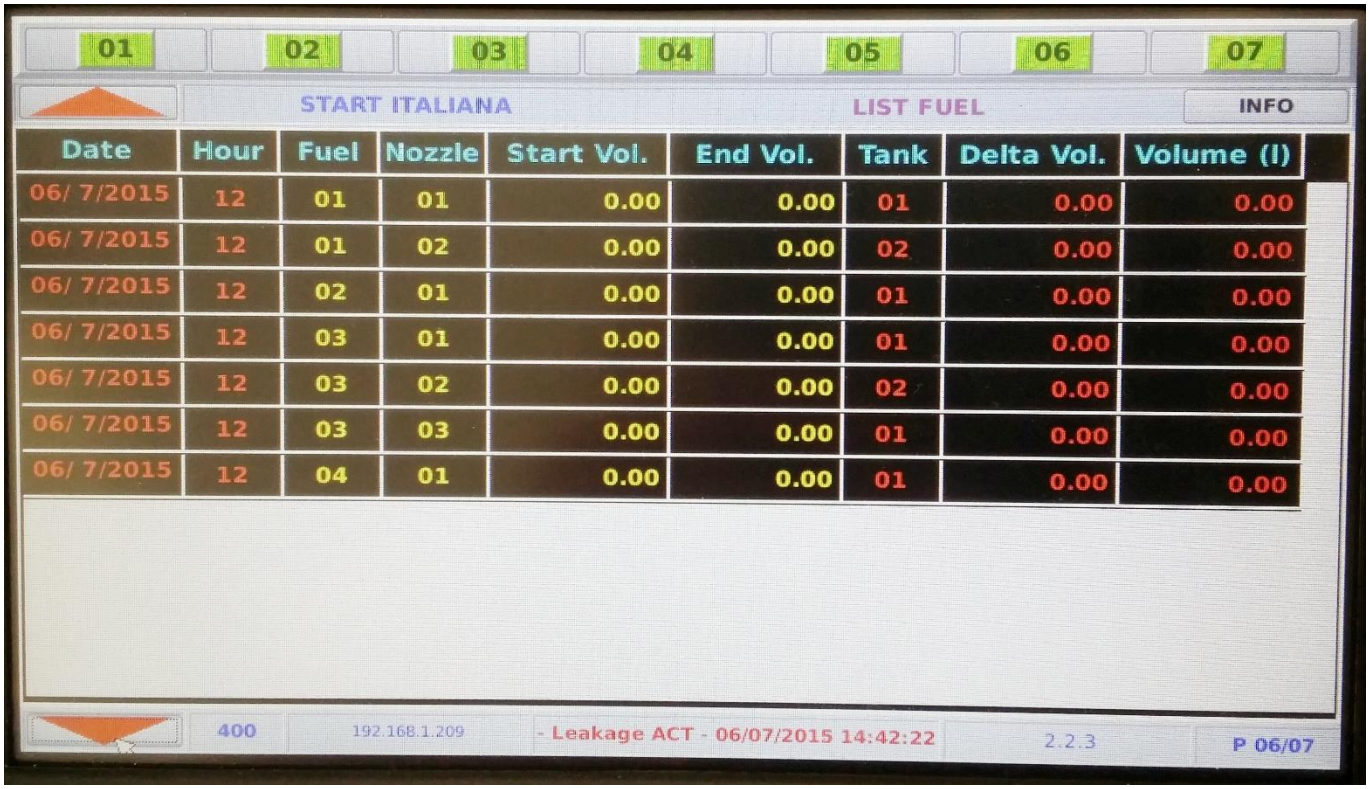
Diagnostic page



Daily reconciliation table



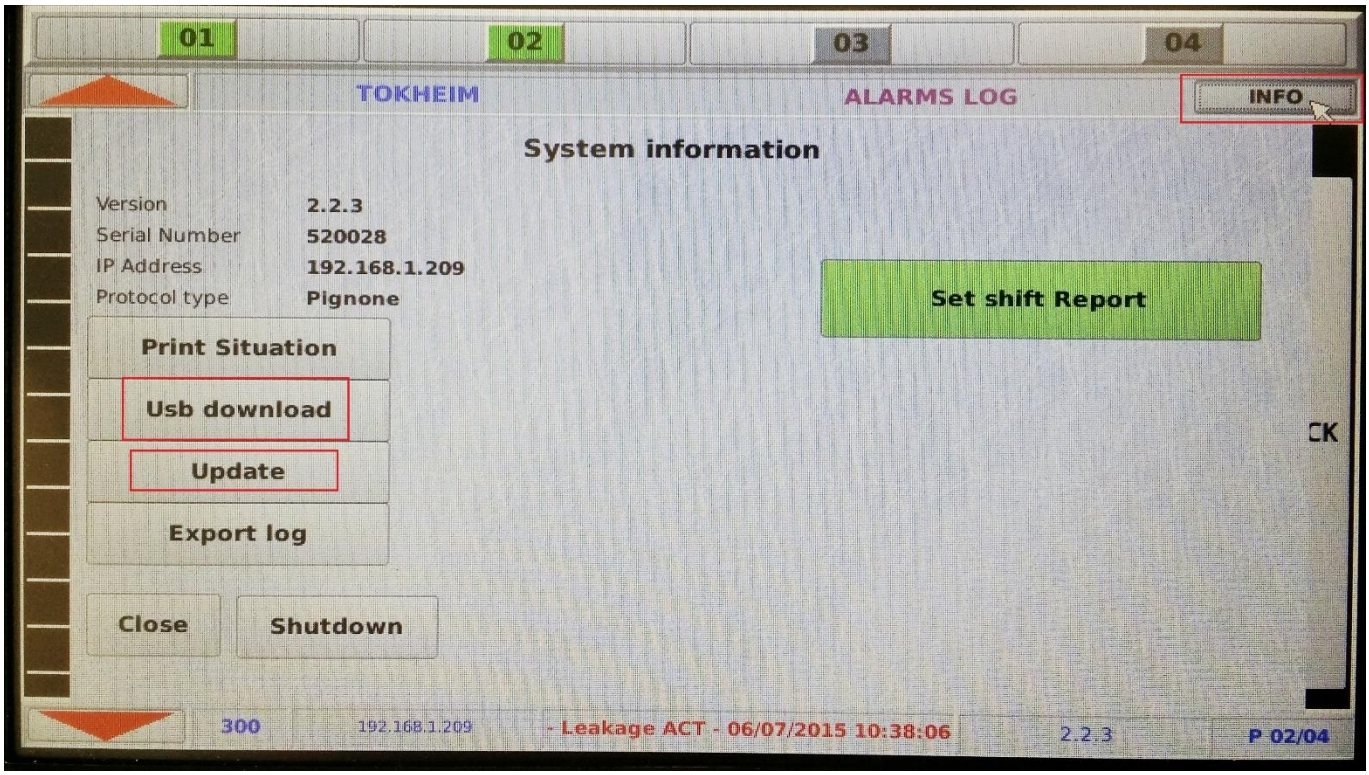
Fuel list is the configuration between tanks and dispensers and noozles.



Date	Hour	Fuel	Nozzle	Start Vol.	End Vol.	Tank	Delta Vol.	Volume (l)
06/ 7/2015	12	01	01	0.00	0.00	01	0.00	0.00
06/ 7/2015	12	01	02	0.00	0.00	02	0.00	0.00
06/ 7/2015	12	02	01	0.00	0.00	01	0.00	0.00
06/ 7/2015	12	03	01	0.00	0.00	01	0.00	0.00
06/ 7/2015	12	03	02	0.00	0.00	02	0.00	0.00
06/ 7/2015	12	03	03	0.00	0.00	01	0.00	0.00
06/ 7/2015	12	04	01	0.00	0.00	01	0.00	0.00

MANUAL UPDATE PROCEDURE

The console software can and should be updated periodically. The application latest version files can be downloaded in zip format from www.startitaliana.it site MagLink-LX section.



To update the console application and the web application follow the steps:

- Download the zip file with the latest version
- Take an usb pen drive with at least 50MB of free space
- BE SURE THE USB PEN DRIVE IS FAT32 FORMATTED
- From usb pen drive create from root **lx-update** folder
- Connect the usb pen drive to the computer and unzip the content of the downloaded file in to newly created folder **lx-update**
- Connect the usb pen drive to the console
- Click on the **Info** button to access info page
- Wait until **Usb download** button appears and press the button to copy all updated files to the console **newversion** folder
- Now press **Update** button to complete update procedure
- Most of the times the console will reboot nor the application will be reloaded

SEND LOG INFORMATION FOR SUPPORT

In case of issues the best solution is to connect the console to the internet. Route the console private IP address to user's public IP address, open port 22 for console access, and port 80 for web access.

When internet connection is not available for any reason user must provide to StartItaliana all information needed for debug process. This is done by pressing **Info** button to access info page then follow the steps:

- Take an usb pen drive with at least 50MB of free space
- BE SURE THE USB PEN DRIVE IS FAT32 FORMATTED
- Connect the usb pen drive to the console
- Click on the **Info** button to access info page
- Wait until **Export log** button appears and press the button to start copy process, all required files will be copied to the console **lx-support** folder
- Zip the **lx-support** folder content and email it to support@startitaliana.it

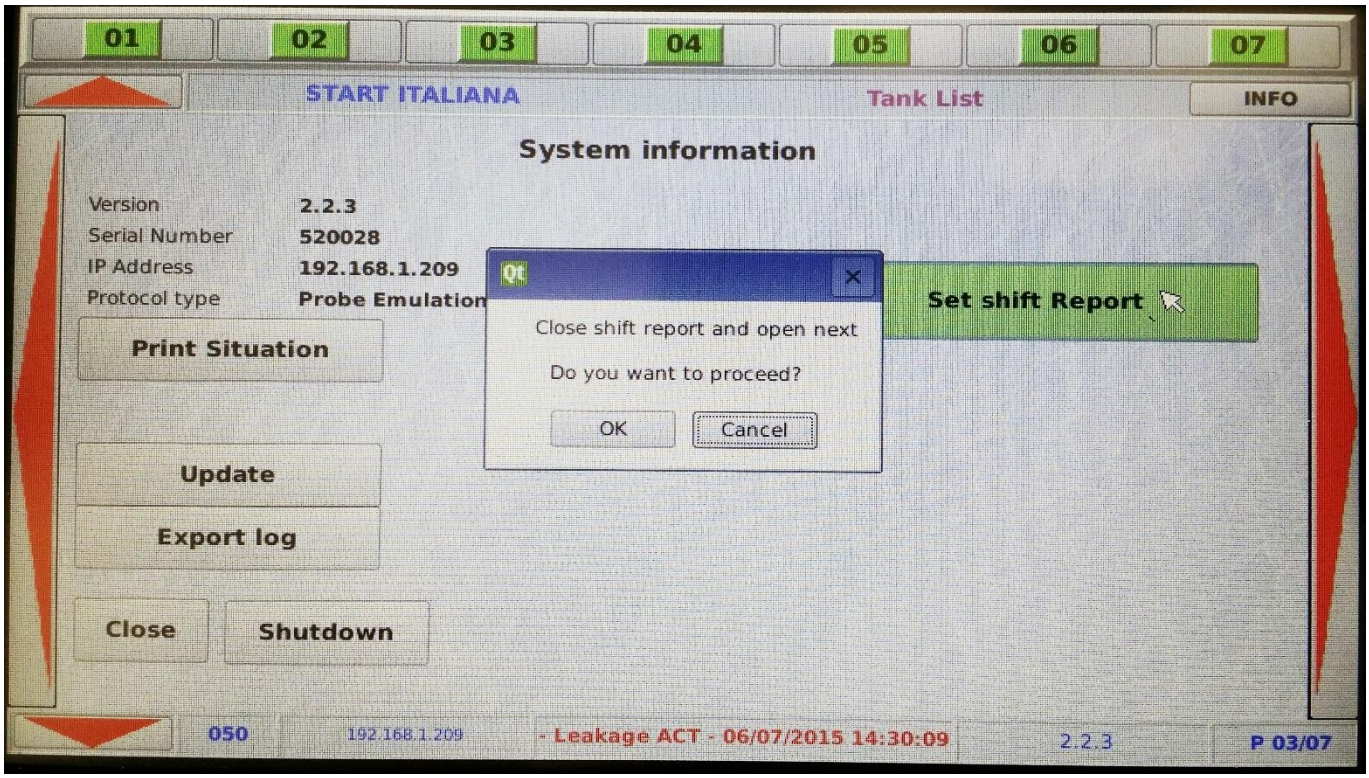
STOCK PRINTOUT

Console can be provided with Sprint printer that must be connected to RS232 com1 serial port. When the printer is connected user can print current stock, this means total product for each tank, summary product stock group by product type.

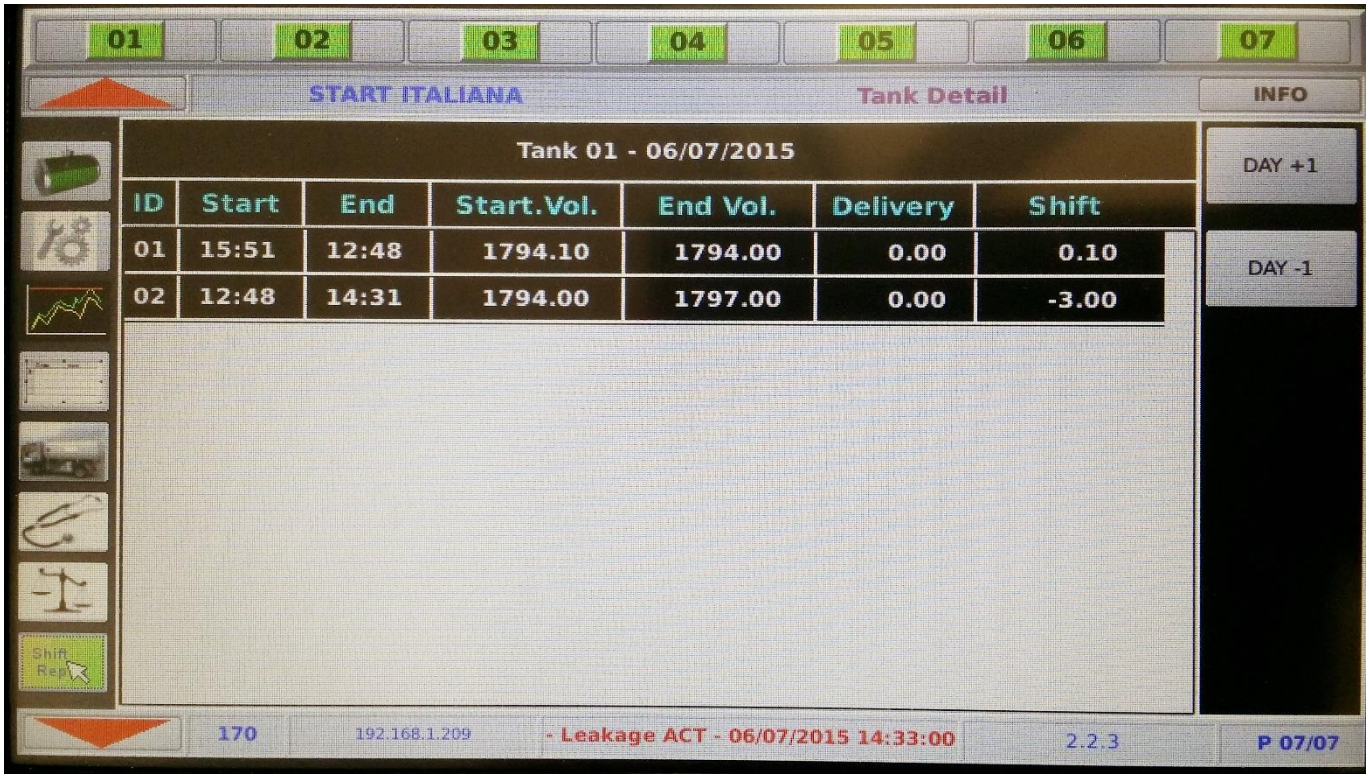
To proceed with the printout, click on **Info** button to access the info page and then click on **Print situation** button, wait until the ticket printer comes out.

SHIFT REPORT

Console can manage shift reports. To open/close shifts just follow the instructions below.
To proceed with the shift report, click on **Info** button to access the info page and then click on **Set shift report** button and confirm the following message box. This operation will close current shift and open next one.



You can navigate through the tank dedicated pages and view the daily shift report:



EXTERNAL DISCONNECTION EQUIPMENT

Install an external magneto thermal breaker, approved by the standards IEC 60947-1 and IEC 60947-3, and marked and installed in accordance with clause 6.11 of EN 61010-1. The magneto thermal easily accessible. Used as a device against overcurrent.
Characteristic external magneto thermal breaker: 4 A, 230 V~, 2P.

SAFETY INSTRUCTIONS

"Safety Instruction" attached.

PRODUCT LABEL

START ITALIANA SRL
Via Pola,6 – 20813 Bovisio Masciago (MB) ITALY

MAGLINK-LX **Serial nr: xxxxxx**

45VA, 100-240V~, 50/60Hz
Working Temperature: -10°C + 50°C

0722 CEC 10 ATEX 025 Rev.3

II (1) G [Exia] IIB
FISCO power supply U_m=250V [Exia] IIB

	ISO 7000-0434B (2400-01)	Caution

CERTIFICATION

Consorzio Europeo Certificazione

CE

Organismo Notificato n. 1131

Ex

[1] **CERTIFICATO DI ESAME CE DEL TIPO (All. III)**
EC-TYPE EXAMINATION CERTIFICATE (Annex III)

[2] **Apparecchio o Sistema di Protezione inteso per l'uso in atmosfere potenzialmente esplosive, Direttiva 94/9/CE**
Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres, Directive 94/9/EC

CEC 10 ATEX 025 Rev.3

[3] **Certificato di Esame CE del Tipo numero .....:** **14/2010 –AET637**
EC-Type Examination Certificate number

[4] **Apparecchio o Sistema di Protezione .....:** **Barriera a sicurezza intrinseca Tipo BRA-SIP, BRA-SI e BRA-2SIP**
Equipment or Protective System
Intrinsic safety barrier type BRA-SIP, BRA-SI and BRA-2SIP

[5] **Costruttore .....:** **START ITALIANA S.r.l.**
Manufacturer

[6] **Indirizzo .....:** **Via Pola, 6 – 20813 Bovisio Masciago (MB) - Italy**
Address

[7] **Questo apparecchio o sistema di protezione ed ogni sua variante approvata è descritto nell'allegato al presente certificato e nei documenti descrittivi in esso richiamati.**
This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] **Il CEC, organismo notificato n° 1131, in conformità all'articolo 9 della Direttiva 94/9/CE del Consiglio dell'Unione Europea del 23 Marzo 1994, certifica che questa apparecchiatura o sistema di protezione è conforme ai Requisiti Essenziali di Sicurezza e Salute per il progetto e la fabbricazione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'Allegato II della Direttiva.**
CEC, notified body No. 1131, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
I risultati dell'esame e dei test sono descritti nel rapporto confidenziale elencato nella sezione 16.
The examination and test results are recorded in confidential reports listed in section 16.

[9] **La conformità ai Requisiti Essenziali di Sicurezza e Salute è assicurata dalla conformità alle:**
Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2012; EN 60079-11: 2012
Nel caso in cui tra le norme tecniche citate fossero presenti norme non armonizzate, la conformità ai Requisiti essenziali in materia di Sicurezza e Salute è comunque stata verificata.
If standards not listed in the list of Atex Harmonised Standards are used, compliance to the Essential Health and Safety Requirements is verified anyway.

[10] **Il simbolo "X" posto dopo il numero del certificato indica che l'apparecchiatura o il sistema di protezione è soggetto a condizioni speciali per un utilizzo sicuro, specificate nell'allegato al presente certificato.**
If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] **Questo Certificato di esame CE del Tipo è relativo soltanto al progetto, agli esami ed alle prove dell'apparecchio o sistema di protezione specificato in accordo con la Direttiva 94/9/CE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione. Questi requisiti non sono oggetto del presente certificato.**

CEC - CONSORZIO EUROPEO CERTIFICAZIONE S.C.A.R.L.
Sede Legale e Uffici: Via Pisacane, 46- 20025 LEGNANO (Mi) Italy - tel. +39.0331.442 266- fax +39.0331.440 054
www.consorziocec.com - info@consorziocec.com - C.F./P.IVA 13073160155 – Reg. Impr. MI 13073160155 – R.E.A. 1612104

CEC – CONSORZIO EUROPEO CERTIFICAZIONE

Certificato di Esame CE del Tipo

EC-Type Examination Certificate

CE

Organismo Notificato n. 1131

This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] **L'apparecchiatura o sistema di protezione deve riportare i seguenti contrassegni:**
The marking of the equipment or protective system shall include the following:

Barriera BRA-SIP, BRA2SIP:

Ex II (1) G [Exia] IIB
FISCO power supply U_m= 250 V [Exia] IIB

Barriera BRA-SI:

Ex II (1) G [Exia] IIB
FISCO power supply U_m= 400 V [Exia] IIB

Legnano, 18 02 2015

CONSORZIO EUROPEO CERTIFICAZIONE
L'ORGANO DELIBERANTE
Il Direttore Tecnico (A. FUGAZZI)
Il Direttore Generale (L.TIMOSSI)

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO
PRD n° 114B ISP n° 071E
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreement

CEC - CONSORZIO EUROPEO CERTIFICAZIONE S.C.A.R.L.
Sede Legale e Uffici: Via Pisacane, 46- 20025 LEGNANO (Mi) Italy - tel. +39.0331.442 266- fax +39.0331.440 054
www.consorziocec.com - info@consorziocec.com - C.F./P.IVA 13073160155 – Reg. Impr. MI 13073160155 – R.E.A. 1612104

CEC – CONSORZIO EUROPEO CERTIFICAZIONE
Certificato di Esame CE del Tipo
EC-Type Examination Certificate

CE
Organismo Notificato n. 1131

[13] **ALLEGATO** – SCHEDULE

[14] **CERTIFICATO DI ESAME CE DEL TIPO n° CEC 10 ATEX 025 Rev.3**
to EC-TYPE EXAMINATION CERTIFICATE no. CEC 10 ATEX 025 Rev.3

[15] **Descrizione** – Description

Il dispositivo BRA-SIP è una barriera passiva a sicurezza intrinseca per alimentare e scambiare dati con dispositivi siti in zona pericolosa. La BRA-SIP è dotata di un canale per l'alimentazione e di un doppio canale per l'interfaccia RS485.
The BRA-SIP device is an intrinsic safety passive barrier which is used to power and to exchange data with devices in the hazardous zone. The Bra-SIP has a channel for power supply and it has a dual-channel for the RS485 interface.

Il dispositivo BRA-SI è una barriera completamente isolata galvanicamente per alimentare e scambiare i dati con dispositivi siti in zona pericolosa. Un dispositivo tipico è, ad esempio, un trasmettitore di dati di processo con alimentazione a 12 Vdc ed interfaccia RS485.
The BRA-SI device is a completely galvanically isolated barrier which is used to power and to exchange data with devices in the hazardous area sites. A typical device is, for example, a process data transmitter with a 12 Vdc power supply and a RS485 interface.

Il dispositivo BRA-2SIP è una barriera passiva a due canali per alimentare e scambiare dati con dispositivi siti in zona pericolosa. La barriera è costituita da due unità identiche aventi le stessa configurazione della barriera singola BRA-SIP.
The BRA-2SIP device is a dual-channel passive barrier which is used to power and to exchange data with devices in the hazardous zone. The barrier consists of two identical units (UNIT1 and UNIT2) with the same configuration of the single barrier BRA-SIP.

Caratteristiche nominali / Dati Elettrici – Rated characteristics / Electrical data

BRA-SIP e BRA-2SIP:

Alimentazione/Power = **14 Vmax**
- Um= 250 V
- Io= 100 mA
- Lo= 1.5 mH
- Po= 0.153 W
- Uo= 14 Vmax
- Co= 3.55 µF

Ree (5-3) = 15.3Ω

DATA I/O = 6 Vmax
- Um= 6 V
- Io= 100 mA
- Lo= 6 mH
- Po= 0.126 W
- Uo= 6 Vmax
- Co= 40 µF

Ree (8-1) = 12.6 Ω

BRA-SI:

Alimentazione/Power = **18...25 Vmax**
- Um= 400 V
- Io= 100 mA
- Lo= 1.5 mH
- Po= 0.153 W
- Uo= 14.05 Vmax
- Co= 3.55 µF

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[13] **ALLEGATO** – SCHEDULE

[14] **CERTIFICATO DI ESAME CE DEL TIPO n° CEC 10 ATEX 025 Rev.3**
to EC-TYPE EXAMINATION CERTIFICATE no. CEC 10 ATEX 025 Rev.3

DATA I/O = 12 Vmax
- Um= 12 V
- Io= 100 mA
- Lo= 6 mH
- Po= 0.126 W
- Uo= 6 Vmax
- Co= 40 µF

Test di Routine / Routine tests
EN 60079-11 §11.1: Routine tests for diode safety barriers

Avvertenze di targa / Warning label
None

[16] **Rapporto numero** / Report Number: **CEC 14/2010 – RET 001**

[17] **Condizioni speciali per un utilizzo sicuro** – Special conditions for safe use

Nessuna – None.

L'efficacia e l'affidabilità di questi apparecchi sono garantite seguendo le istruzioni del Manuale d'uso. Non sono ammesse modifiche non autorizzate rispetto al fascicolo tecnico agli atti.
Special conditions for safe use depends on correct following of manufacturer's manual. Further modification are not allowed.

[18] **Requisiti Essenziali di Sicurezza e Salute** – Essential Health and Safety Requirements

Nessuno – None. **Riguardo ai Requisiti Essenziali di Sicurezza e Salute questo documento verifica la conformità solo agli standard Ex. La dichiarazione di Conformità del Produttore dichiara la conformità con altre Direttive pertinenti.**

Concerning EHSR this schedule verifies the compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

[19] **Documenti descrittivi** – Descriptive documents

I documenti di riferimento listati di seguito costituiscono la documentazione tecnica dell'apparecchio o sistema di protezione oggetto di questo certificato. Questi documenti sono confidenziali e sono a disposizione delle sole autorità competenti.
Una copia di questi documenti è conservata presso l'archivio del CEC.
The descriptive documents quoted hereafter constitute the technical documentation of the equipment or protective system, subject of this certificate. This documents are confidential and they are available only to the authorities.
One copy of all documents is kept in CEC files.

Fascicolo tecnico, AR15ExTR001

L'ISPETTORE INCARICATO
Dott. Ing. Giuseppe TERZAGHI

Organo deliberante | Antonio FUGAZZI | Data: 18/02/2015

NOTIFICATION

CESI

ISMES

IPH BERLIN

FGH

CESI S.p.A.
Via Rubattino 54
I-20134 Milano - Italy
Tel: +39 02 21251
Fax: +39 02 21255440
e-mail: info@cesi.it
www.cesi.it

CESI-ATEX

Schema di certificazione

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
PRD N. 018B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

ATEX E N 021-1 - 1

NOTIFICATION

[1] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**

[2] **Equipment or Protective System or Component intended for use in potentially explosive atmospheres Directive 94/9/EC**

[3] Notification number:

CESI 06 ATEX 031 Q

[4] Equipment or component type: Transmitters and level switches
Capacitive sensors for continuous liquid level measurement and discriminative function for different
Terminal boxes
Magnetostrictive level sensors
Galvanically isolated barriers

Protection concepts: Flameproof enclosures "d"
Intrinsic safety "i"
Encapsulation "m"
Dust ignition protection "tD"
Mechanical protection by constructional safety "c"
Dust ignition protection "t"
Pressurization "p"

[5] Applicant: START Italiana S.r.l.
via Pola, 6
20813 Bovisio Masciago - MB

[6] Manufacturer: START Italiana S.r.l.
via Pola, 6
20813 Bovisio Masciago - MB

[7] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, notifies to the applicant that the actual manufacturer has a production quality system which complies to Annex IV of the Directive.

[8] This notification is based on audit report n. EX-B5006989 issued the 9/03/2015.

This notification can be withdrawn if the manufacturer no longer satisfies the requirement of Annex IV.

Results of periodical re-assessment of the quality system are a part of this notification.

[9] This notification is **valid until 17/03/2018** and can be withdrawn if the Manufacturer does not satisfy the production quality assurance re-assessment.

[10] According to Article 10 [1] of the Directive 94/9/EC the CE marking shall be followed by the identification n. 0722 identifying the notified body involved in the production control stage.

Date of 1st issue	Date of renewal
17th March 2006	17th March 2015

Translation issued 17th March 2015

Prepared	Verified	Approved
Sergio G. Giugno	Mirko Balaž	Roberto Piccin

CESI S.p.A.
Testing & Certification Division

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Prot. B5006995 P: 1 Rin: 3

START ITALIANA S.r.l.
Via Pola, 6
20813 Bovisio Masciago (MB)
Tel: +39 0362 – 15.81.465
Fax: +39 0362 – 15.81.464