

TTC 400

TANKFEEL

智能数显表头

www.cimc.com
www.tankmiles.com



BASICS

通用的配置可以实现快速读取、
获得罐箱数据

Universal configuration may allow
for rapid reading of and access to
the data of tank containers.



产品介绍

Product Introduction

TankFeel TTC 400

数显温度计

Display thermometer

精度 $\pm 0.2^{\circ}\text{C}$

Tolerance: $\pm 0.2^{\circ}\text{C}$

5万条数据存储

Capable of storing data as many as 50,000

防水设计

Waterproof design

高强度外壳

High strength housing

TankFeel TTC400 is a multi-functional intelligent digital instrument display suitable for tank containers. The device allows users to accurately measure cargo temperature. When jointly used with the CIMC Smart flange, it can instantly display the actual load and internal pressure. Not only is TankFeel TTC400 a display but also a data logger, with the ability to record and store data as many as 50,000 (equivalent to 1 year's data). The data can easily be downloaded over a Wi-Fi connection using the specific APP iLink.

TankFeel TTC400是一款适用于罐式集装箱的多功能数显仪表。该装置可精确感知介质温度，当配合智能法兰使用时，还可以显示罐箱实际装载量和罐内压力，真正实现一表多用。

它不仅是一块显示器，还能充当数据记录仪，内置存储**5万条数据**的存储器，记录全年的物流数据。通过手机**APP ILINK**连接设备的**WI-FI**网络可以实现数据的轻松下载。

- Local visualization of monitoring data
- Automated surveillance of temperature of cargoes during transport
- Allows for traceability and identification of tank impact damage
- Quality and performance documents to be automatically generated.
- 监控数据本地可视化
- 运输过程中的温度监控
- 防损、损坏原因追溯
- 自动生成质量报告



升级智能数显终端的优势

WHY TANKFEEL?

MECHANICAL TEMP GAUGE
机械式温度计



Temp measurement
温度测量



Mechanically
机械式

Display mode
显示方式



Eye judgement
人眼判断

High Accuracy
更高精度



$\pm 3^{\circ}\text{C}$
 ± 3 摄氏度

Quick reading
快速读数



Data recording
数据记录



Data download
数据下载



DIGITAL THERMOMETER
TANKFEEL数显温度计



Electronically
电子测量



Digital display accuracy 0.1
显示精度0.1



$\pm 0.2^{\circ}\text{C}$
 ± 0.2 摄氏度



Refreshed 3 to 5 seconds
3-5S刷新



Data recorded
every 15 minutes
15分钟记录



Wireless data download
无线数据下载

显示、功能

Display and Function

CE Certification

CE认证



Calibration and test report

温度计量检测报告

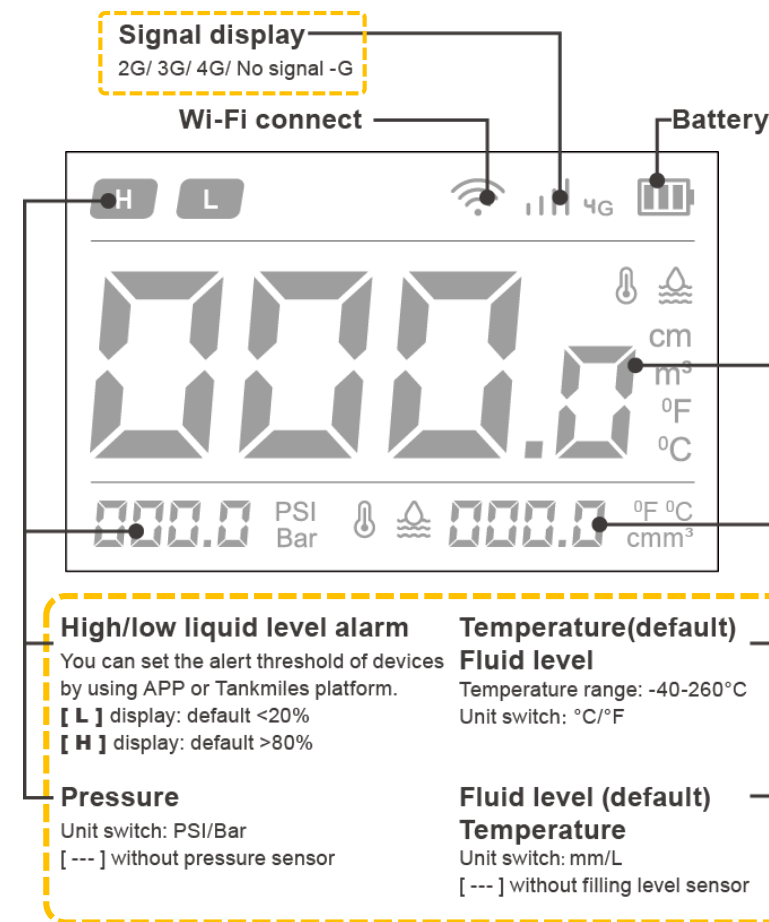


TankFeel TTC 400



Screen

显示屏



Button

功能按键



Button 1

Short press: Switch the display of temperature and liquid level
Long press: Wi-Fi ON

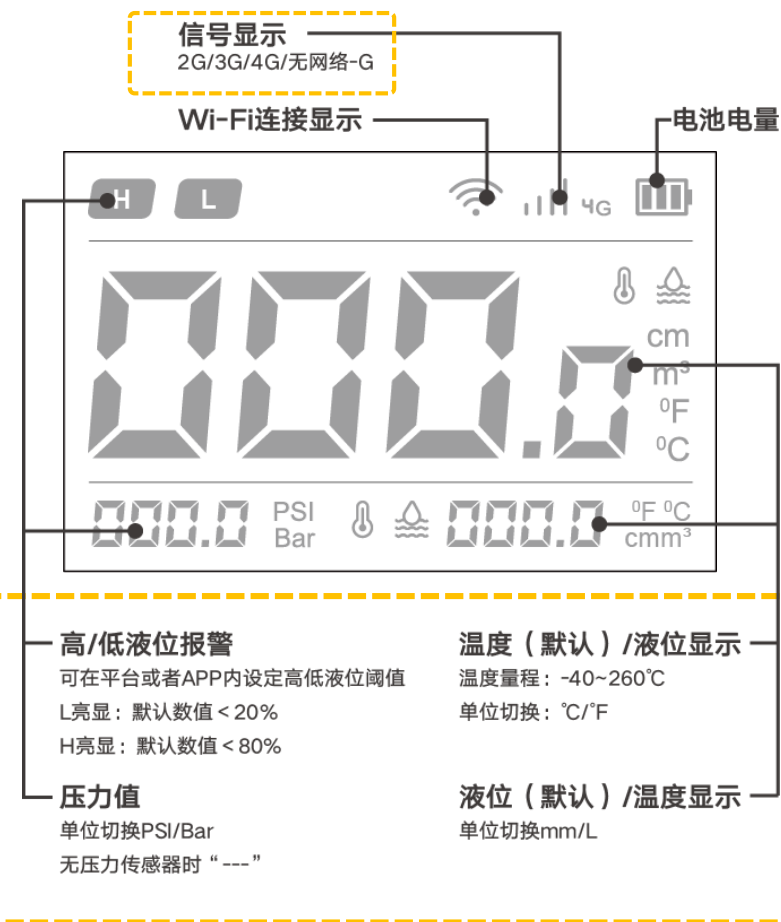


Button 2

Refresh: Increase refresh frequency

TTC 410 function

仅TTC 410含此功能



按键1

短按: 温度/液位显示转化
长按: Wi-Fi功能激活



按键2

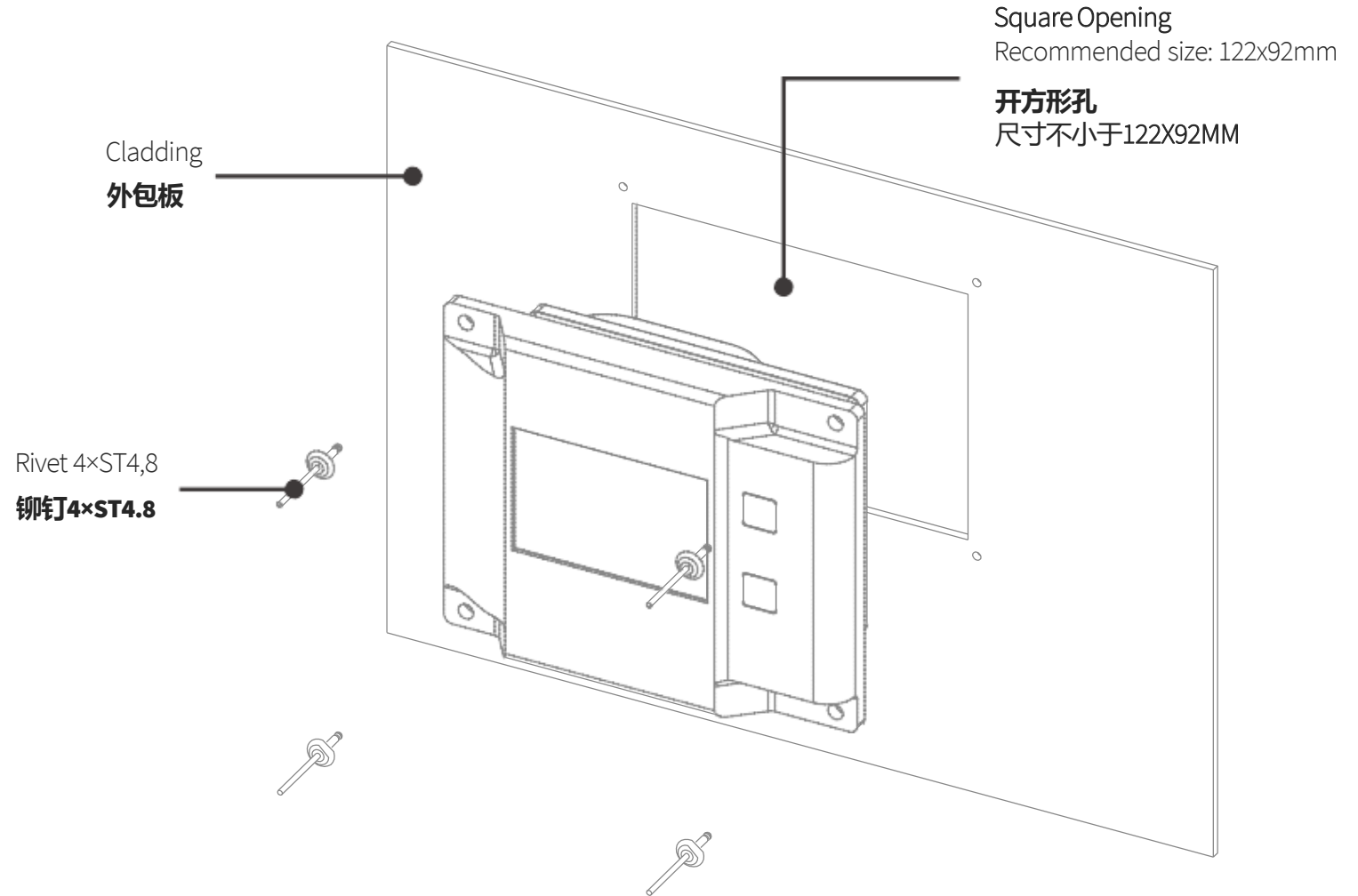
刷新: 提高液位压力刷新频次

设备安装

Installation of TTC

The display terminal can be installed on wherever appropriate the cladding of tank container. Fixed by embedded installation.

显示终端可安装在罐箱任意合适的外包上,将其嵌入固定在矩形开孔内。



探头安装

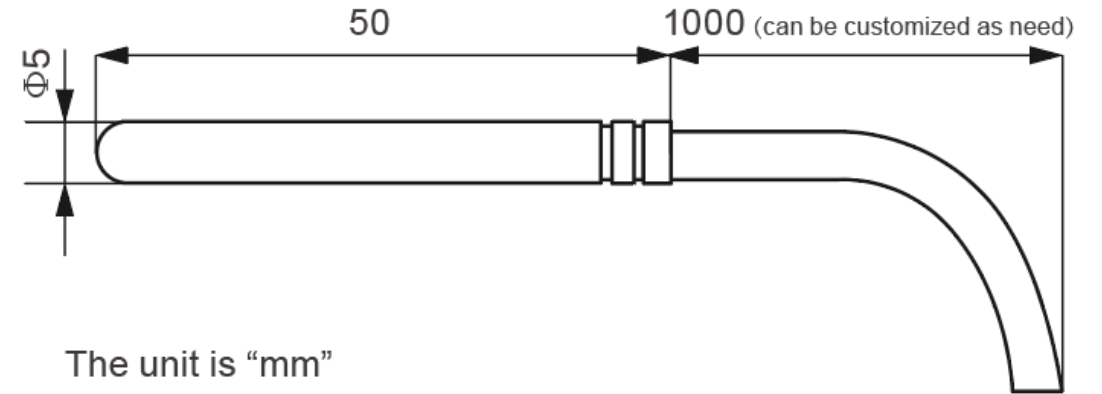
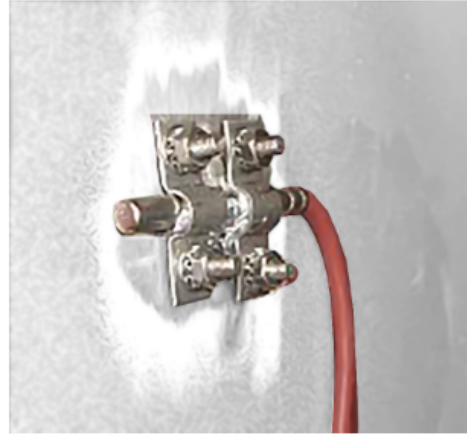
Installation of Temp Probe

The equipment is equipped with one PT1000 temperature probe. The probe can be installed either on the surface of the barrel or in a plug-in manner.

产品自带一根**PT1000**温度探头，可以选择贴壁式或插入式安装方法

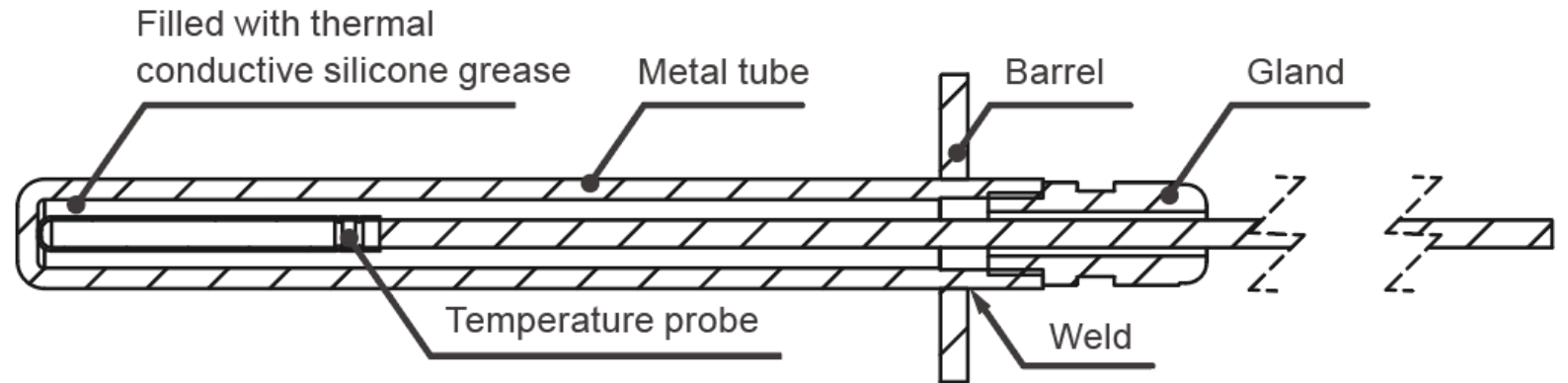
Method 1: Surface Installation

Fix the probe on the surface of the tank and cover it with insulation.



Method 2: Metal Tube Installation

The tank barrel is perforated by a tube and Insert the temperature probe into it.



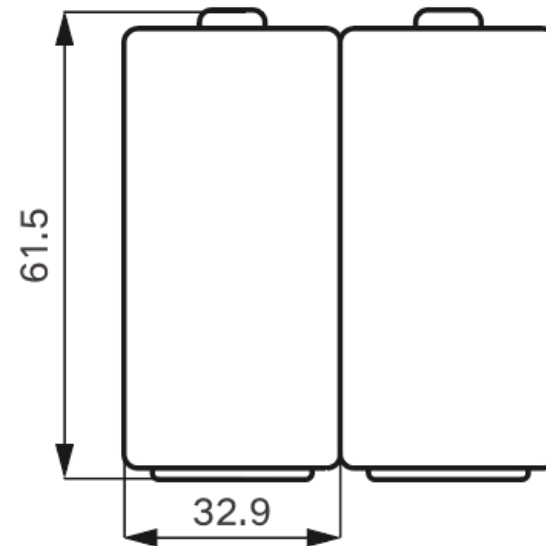
电池

Battery

Series connection of two 34615 batteries.
7.2V and 19Ah.

两节**34615**电池串联，**7.2V**电压，**19Ah**电量

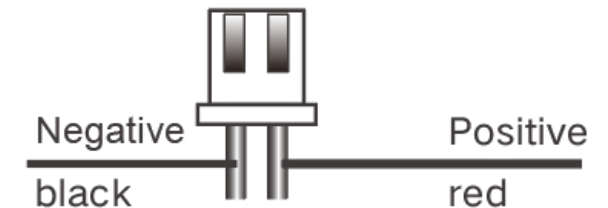
Battery Parameters



Model	ER34615
Amount	2 pieces
Standard Voltage	7.2V (3.6V×2)
Battery Capacity	19Ah
Connector Model	XH-2P
Operating Temp	From -55°C to 85°C
Cable Length	11mm (Including joint length)

Battery Connection

When you connect the cable of battery, please make sure that you make the negative one on the left whilst the positive one on the right.



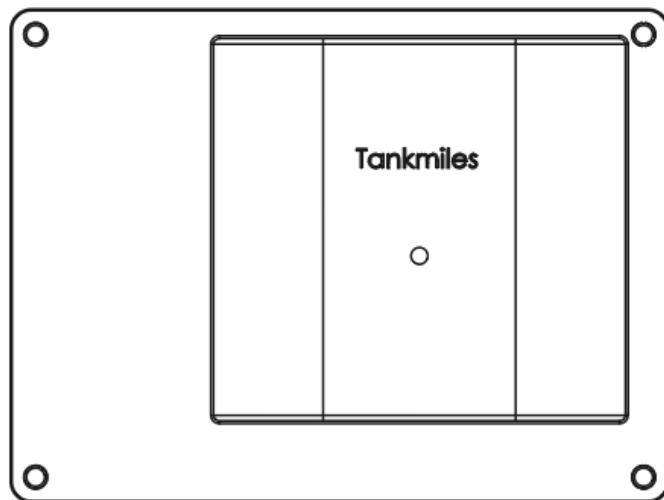
电池替换

Battery Replacement

Replaceable battery pack and operation method

可替换电池组及操作方法

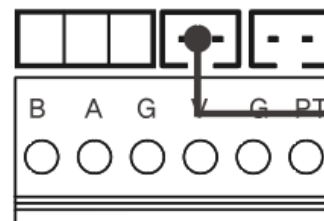
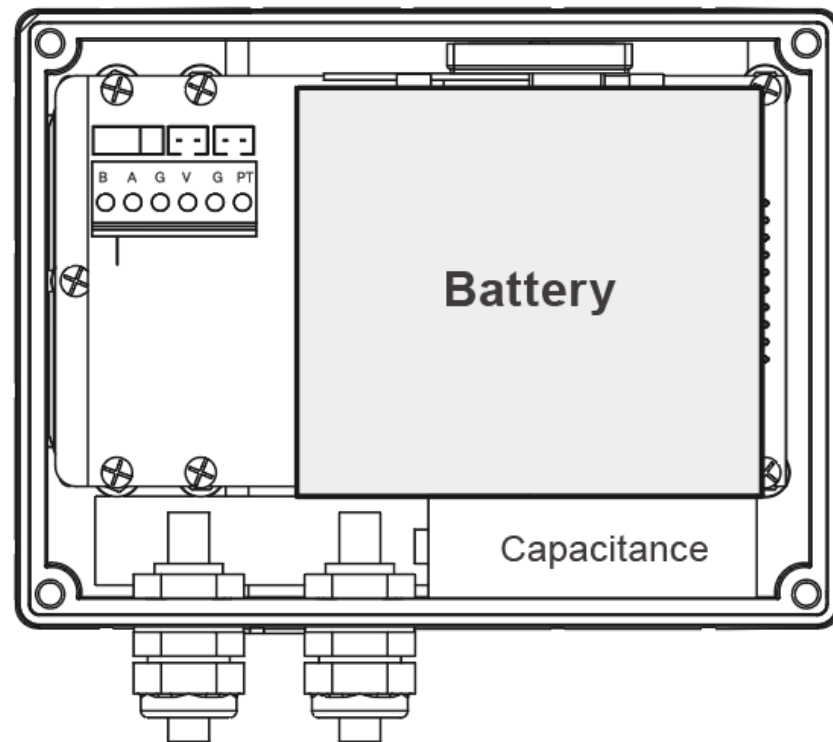
▼ Step 1: Remove the screws and the rear cover plate of TTC-400



Step 2: Remove the used disposable battery and connect the new battery cable to the **J1** socket

Step 3: Put on the cover and tighten the screws

Done!



J1 Socket
For 7.2V battery

APP应用

Application



iLink Application
移动端应用



软件基础功能
Basic functions of APP



WeChat
公众微信号



Data list / graphics
数据列表 / 图形显示

Data download & sharing
历史数据下载、分享

Parameter setting
参数设置

Software upgrade
软件升级

UPGRADED OPTIONS

选配其他设备，实现更多功能

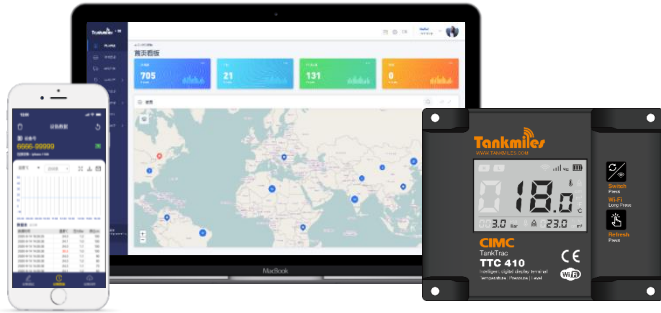
Options with more functions.



其余升级功能

Other Upgraded Options

Option 1



远程升级

- GPS定位
- 4G/3G/2G网络
- 监控平台



Telematics Upgrade

- GPS positioning
- 4G / 3G / 2G network
- Monitoring platform



Option 2



智能法兰

- TRP300-110: 高频雷达+压力监测
- 整体高度低于80mm, 适配各种容积
- $\pm 3\text{mm}$ 高精度, 6° 以内的波束角
- 可换算容积和重量, 取代液位标尺、地磅传统测量方式

Smart Flange

- TRP300-110: High Frequency Radar + Pressure Monitoring
- The overall height is less than 80mm, compatible with various capacities
- $\pm 3\text{mm}$ tolerance, beam Angle within 6°
- Easy conversion of capacities instead of getting measurements from such traditional devices as calibration charts and load meters.

Option 3



电池盒

- 多种电池容量选择

Battery Package

- A variety of battery capacity options available

远程升级

Telematics Upgrade

TankTrac TTC 410



当选择更高配置的 TankTrac TTC 410时,您还可以获取罐箱位置信息,并通过4G/3G/2G通讯模组将数据传输至云平台。这可以帮助您更好地管理罐箱,使您的运营更加透明和安全。

If you go for CIMC TankTrac TTC 410, an upgraded configuration, the physical tank GPS location can also be retrieved in addition to all logistic data being transmitted to the cloud through 4G/3G/2G communications. This facilitates fleet management by tracking your entire tank movements, making tank operations even more transparent and safer in service.



加强芯
Reinforcing core

远程通讯(仅 TankTrac 可用)		REMOTE COMMUNICATION(Only for TankTrac)	
定位	GLONASS 全球卫星导航系统 基站辅助定位 A-GPS	Positioning	GLONASS GSM-cell location A-GPS
通讯	☐ 2G, GSM/GPRS/EDGE ☐ 3G, HSPA(+) ☐ 4G, Worldwide LTE 集成 SIM 芯片，可在全球范围内进行通信	Communication	☐ 2G, GSM/GPRS/EDGE ☐ 3G, HSPA(+) ☐ 4G, Worldwide LTE Integrated SIM-chip for worldwide communications

远程升级

Telematics Upgrade

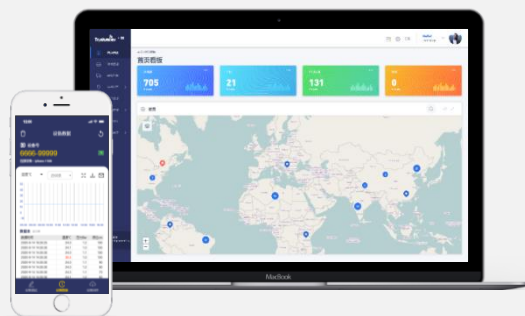
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*HTTP interface can connect data to customer data systems and platforms

*HTTP 接口可将数据接入客户数据系统及平台

Remote Service

监控平台



Full Visualization

Monitoring platform facilities can increase transparency and speed in critical logistics processes, minimize risks and in turn increase productivity.

全程可视化

全程可视化监控平台有助于提高关键物流过程的透明度和速度，降低风险，从而提高生产力。

1

Number of Equipment
设备数量

2

Type of Container
罐箱型号

3

Location
(Country, town etc.)
位置地址

4

Speed
速度

5

Kilometer Count
公里计数

6

Battery Capacity (%)
电池容量 (%)

7

Impact Energy (shocks)
撞击

8

Transport Order
运输订单



Warning Center

Can automatically send early warning information through Emails, SMS and Voice broadcast .

预警中心

可自动通过邮件、短信、语音播报预警信息。



Customized Service

User-friendly designs, adjustable dashboards and business analysis functions can be tailor-made.

定制化服务

根据需求，平台支持模块化定制开发，为您的需求匹配更加精准的服务。

智能法兰

Smart Flange

智能法兰：罐箱压力、液位测量方案

Smart flange: A better solution on measurements of pressure and liquid level

TRP 300-110

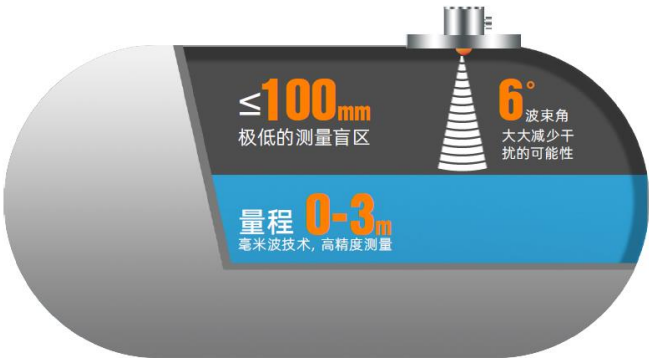


Certifications 认证文件



PCEC: Exib IIC T6 Gb PCEC: Exd IIC T6 Gb ATEX: II 2G Exib IIC T6 Gb CE

选配2 Option 2



物理特性		PROPERTIES	
外壳材质(可选)	SUS 304 / SUS 316 / SUS 316L	Enclosures (Optional)	SUS 304 / SUS 316 / SUS 316L
外观尺寸	高：80mm	Process Fitting	H: 80 mm
保护等级	IP67	Protection Class	IP67
工作温度	-40℃至 80℃	Operating Temperature	-40℃ ≤ Tamb ≤ +80℃
性能		FUNCTION	
[液位] 液位量程	0-3000mm	[Liquid Level] Range	0-3000 mm
[液位] 波束角	6 °	[Liquid Level] Beam angle	6°
[液位] 精度	± 3mm(0.1% F.S.)	[Liquid Level] Accuracy	±3 mm(0.1% F.S.)
[压力] 压力量程 (可选)	0-4bar / 0-10bar / 0-20bar	[Pressure] Range (Optional)	0-4 bar / 0-10 bar / 0-20 bar
[压力] 精度 (可选)	± 0.5% F.S.	[Pressure] Accuracy (Optional)	±0.5% F.S.
电气接口		ELECTRICAL INTERFACE	
电源电压	6~40VDC	Supply Voltage	6~40VDC
输出	RS-485	Signal Output	RS-485

电池盒

Battery Package

Battery Package Options 电池盒选项

BAT 7.2-38

7.2V 38Ah

BAT 7.2-76

7.2V 76Ah

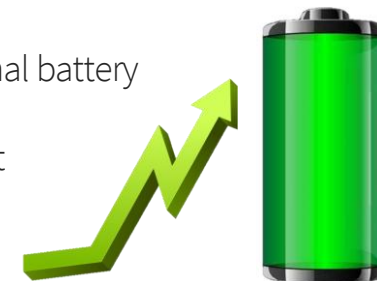


电池组方案

- 7.2V 38Ah/7.2V 76Ah外接电池盒选项
- 简单替换
- IP67防护等级
- 延长寿命

Battery package solution

- 7.2V 38Ah / 7.2V 76Ah external battery package option
- Simple battery replacement
- IP67 protection
- Extension of battery life



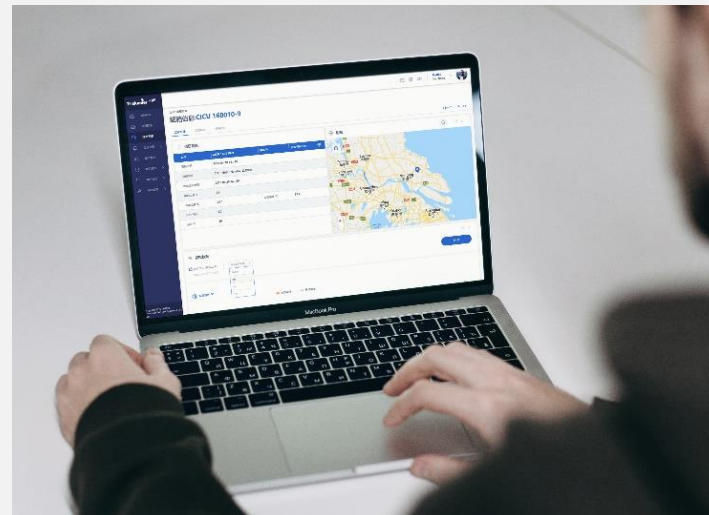
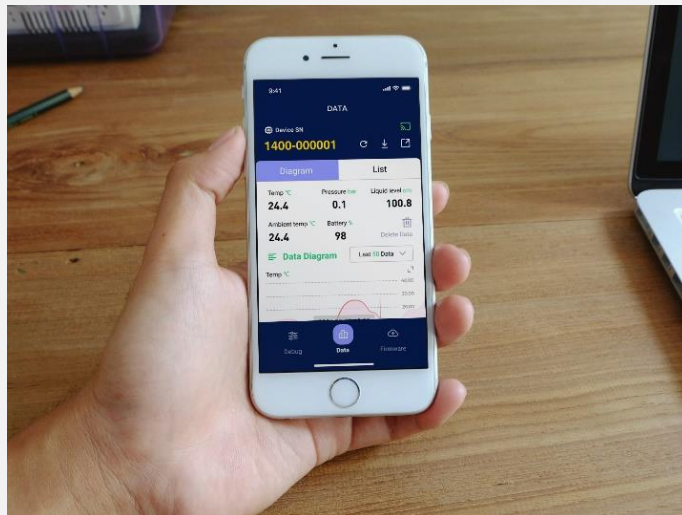
选配3

Option 3



行业应用

APPLICATIONS



THANK YOU

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