

智能法兰

SMART FLANGE



型号

TYPE

TRP 300-100
TRP 300-110

PRODUCT INTRODUCTION

产品介绍



中集智能法兰是一系列专为移动式储罐（包括 ISO 罐式集装箱）定制开发的新型传感产品。

TRP 300-100 系列提供一体式设计的液位解决方案。运用非接触式雷达技术，测试高频电磁波从液体表面的反射时长，计算后转换成数字信号，提供精确的液体测量。它整体高度低于 80mm，因此可适配多种罐箱的溢流盒设计。

TRP 300-110 提供智能多功能仪表，将液位和压力传感器集成到一个系统，减少了罐箱所需备用接口数量，节省了多变量检测的成本。

The CIMC Tank intelligent SMART FLANGE is a series of new sensor products specially developed for UN Portable Tanks, including ISO tank containers.

The TRP 300-100 provides a compact one-piece sensor design and liquid level gauge solution. Utilising the latest non-contact RADAR technology, high frequency electro-magnetic waves are reflected from the liquid surface, calculated then converted into a digital signal to provide a precise liquid measurement. At only 80mm tall it is extremely low profile and therefore suitable for installation within most spill boxes and tank capacity designs.

The TRP 300-110 delivers an intelligent multi-function gauge integrating both liquid level and pressure sensors into a single system. This in turn reduces the number of provisions needed on a tank and further cost savings in eliminating multiple tank sensors.

产品性能优势



- ◆ 低测量盲区 (≤100mm)
- ◆ 毫米波技术助力高精度测量
- ◆ 6° 波束角，减少干扰的可能性
- ◆ 内置自动补偿，消除温度、压力等环境影响
- ◆ 6-40VDC 宽电压输入，可支持多种电压输入
- ◆ 智能匹配，无需调试
- ◆ 低功耗技术，毫安级能耗
- ◆ 紧凑设计适用于安装高度受限的罐箱
- ◆ 取代液位标尺、地磅等传统测量方式

EQUIPMENT ADVANTAGES



- ◆ Low measurement blind area (≤100mm)
- ◆ Millimeter wave technology for high-precision measurement
- ◆ 6° beam angle, reducing the possibility of interference
- ◆ Built-in automatic compensation to eliminate environmental impacts
- ◆ 6-40V DC to support wide range of voltage inputs
- ◆ Intelligent matching means no need for system debugging
- ◆ Low power milliamperage energy consumption technology
- ◆ Compact design for tank containers with limited height
- ◆ Eliminates need for high level tank access, internal cargo level measuring or tank weighbridges

型号		TYPE	
TRP 300-100 (液位监测) TRP 300-110 (液位监测 + 压力监测)		TRP 300 (Liquid level) TRP 310 (Liquid level + Pressure)	
物理特性		PHYSICAL	
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: 80mm
保护等级	IP67	Protection class	IP67
工作温度	-40°C至 80°C	Operating Temperature	-40°C ≤ Tamb ≤ +80°C
性能		PERFORMANCE	
[液位] 液位量程	0-6000mm	[Level] Range	0-6000mm
[液位] 波束角	6°	[Level] Beam angle	6°
[液位] 精度	± 3mm(0.1% F.S.)	[Level] Accuracy	±3mm(0.1% F.S.)
[压力] 压力量程(可选)	0-4bar / 0-10bar / 0-20bar	[Pressure] Range (Optional)	0-4bar / 0-10bar / 0-20bar
[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
选配		OPTIONAL	
智能配件	TankTrac、TankFeel SAVVY CargoTrac-I SAVVY FleetTrac-B 客户现场 PLC/DCS 等其余设备	Telematic Pro	TankTrac, TankFeel SAVVY CargoTrac-I SAVVY FleetTrac-B Field equipment: PLC/DCS, etc.



智能法兰系列产品可连接罐程智能终端，实现远程监控

Smart flange series products can be connected to Tankmiles series devices for remote monitoring.

应用场景

AREAS OF USE



液位监测
Liquid level monitoring



压力监测
Pressure monitoring



防偷盗
Prevents theft



罐箱装载效率
Tank container loading efficiency



适用于爆炸性危险环境
For use in hazardous areas

