TECHNICAL SPECIFICATIONS

Safety Approvals	5 1: E 0 1E 0	1 1 1 4 TA CI	JEGE JOS AS GOOSY				
IECEX	Ex d ia [ia Ga] [ib Gb] IIA T4 Gb		IECEX ICS 16.0006X				
NEPSI	Ex d ia ib IIA T4 Ga	/Gb	GYJ16.1373X				
Environmental	2000	/o					
Operating Temperature	-20°C to +60°C (Standard Temperature Version)						
		-40°C to +60°C (Extended Temperature Version)					
Protection Class	IP65						
Materials Enclosure	Coot Alemainian A	la dia a dia a di Davoda a Co	est and				
	Cast Aluminium, A	lodined and Powder Co	pated				
User Interface	6 1 1461	Al I N	L. C. L. V. L. D. C.				
Keypad	Customised 16 key, Alpha Numeric, Stainless Steel, Vandal Proof						
Display	2 X 3.5" LCD Screens, 240X160 Resolution						
Connections	2 1 1 1 2 2 1 1 1 1		(5.3)				
Cable Entries	3 X M20 X 1,5 Intrinsically Safe Gland Entries (Exi)						
	4 X M20 X 1,5 Flameproof Gland Entries (Exd)						
GSM Entry	1 X M16 X 1,5 Flan	neproof Bush (Exd)					
Electrical							
Input Voltage	24 VDC						
Battery Backup	Lithium-lon 18V 2200mA/h (Fuse Protected & Encapsulated)						
Inputs	16 X Exi 2 Wire Retain Wet/Dry Optic Inputs						
	24 X Exi Namur Proximity Inputs						
	2 X Exi General Purpose / Namur Inputs						
	1 X Exi General Purpose Input						
Output	1 X Exi General Purpose Output						
	1 X Exd 24VDC / 18VDC Power Output (Battery Backed-up)						
Overfill Interface	12 X 5-Wire Overfill Sensors (EN13922)						
Communication Ports	1 X Exd RS485 / RS232						
	1 X Exd GSM / RS232						
	1 X Exi CAN BUS (Sensor Interface)						
72	1 X Exi 1-Wire Bus (SHA iButton Interface)						
Protocols	CAN Open						
	NEMA						
	SHA iButton						
Sensor Interface		101					
Max of 30 Nodes:	API-400 (API Adaptor Open/Close, Wet/Dry)						
	BVS-100 (Bottom Valve Open/Close)						
	MAN-400 (Manhole Open/Close)						
	REF-400 (GPS + Inclination) RIO-200 (Remote Input / Output Interface. E.g. Pneumatic Control)						
	RIO-200 (Remote I	nput / Output Interface	e. E.g. Pneumatic Control)				
Data Storage	40041						
Storage	12Mbyte Non-Volatile Memory (Stores up to 200 000 events)						
Weight							
Weight	7kg						

API-400, MAN-400, BVS-100, REF-400

Safety Approvals							
IECEx	Ex d ia [ia Ga] [ib Gb] IIA T4 Gb	IECEx ICS 15.0009X					
Environmental							
Operating Temperature	-40°C to +60°C						
Protection Class	Encapsulated Electronics, IP67 Connectors						
Materials							
Enclosures	Machined Aluminium, Anodised (API-400, MAN-400, BVS-100)						
	Polyester (REF-400)						
Interface							
	CAN BUS						
Functionality							
API-400	Optic Sensor for wet/dry detection + Inductiv	e Proximity Sensor for open/closed detection					
	of the API adaptor						
MAN-400	3 Axis Accelerometer for open/closed detection of the manhole						
BVS-100	Hall Effect Sensor for open/closed detection of the bottom valve						
REF-400	3 Axis Accelerometer for inclination detection of vehicle + GNSS Module for time date and						
	location recording of events.						

SEALED PARCEL DELIVERY SYSTEM



Metermatic SCS-400



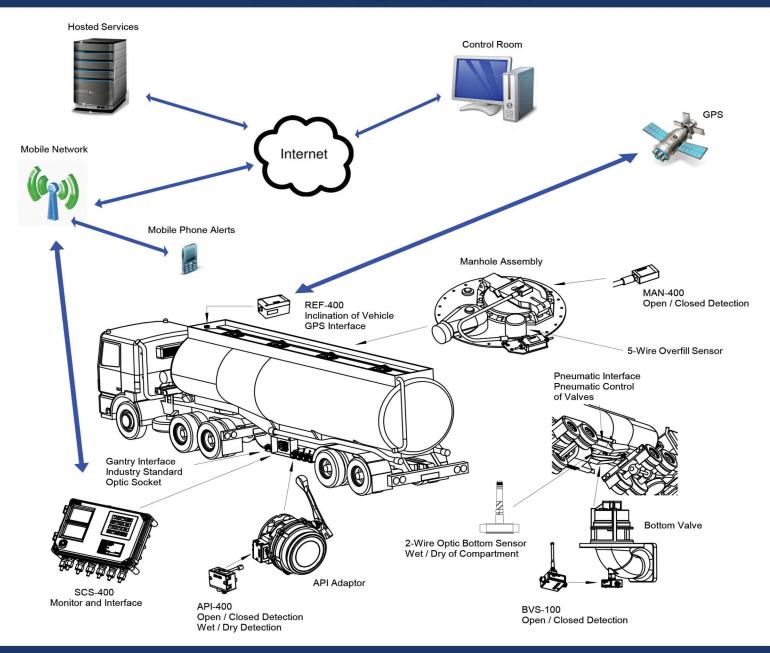




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SYSTEM COMPONENTS HOST SYSTEM



Real Time Information

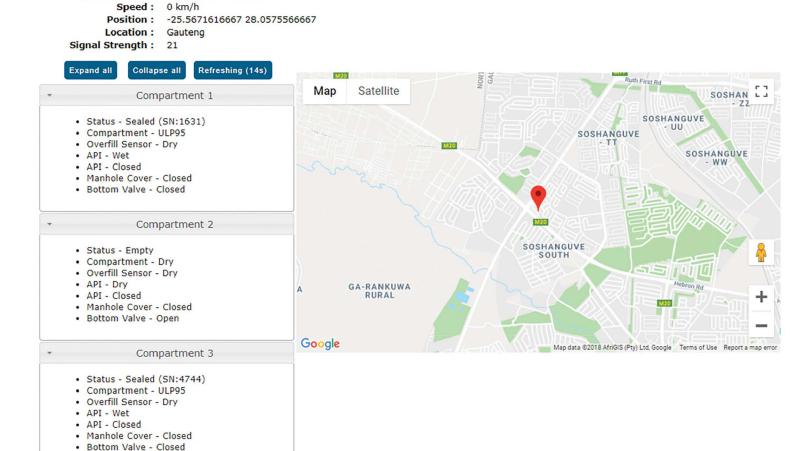
Vehicle Registration

Status:

Time Updated:

Connected

2018/08/29 09:02:07



SCS-400

The New SCS-400 Sealed Parcel Delivery (SPD) system secures your fuel from disconnect of loading coupler to delivery point in accordance with EN15208.

System operation is as follows:

- Compartment status confirmed as EMPTY prior to loading.
- Compartment status changed to SEALED after loading (Top or Bottom loading)
 - o Seal status is monitored in transit.
 - o Unique non sequential seal number allocated to each compartment.
 - o Seal status is monitored for up to 72 hours when disconnected from main power (Pre-Load)
 - o Offloading outside an authorized geo-fence is flagged and an alert is immediately sent.
- Compartment confirmed as SEALED prior to off-loading.
- Compartment confirmed as EMPTY after off-loading.
- Frustrated delivery handled by resealing of compartment.
- Detailed trip reports are available on www.scsanalyser.co.za

Metermatic

EVENT LIST

			View ALL				
Date	Event	Status	Latitude	Longitude	Speed	Location	View
2018-07-25 08:47:29 AM	Bottom Valve Sensor	Open	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:48:07 AM	API Sensor	Open	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:48:07 AM	Compartment Status	Unsealed	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:48:09 AM	API Optic	Wet	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:48:36 AM	Retain Sensor	Wet	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:48:36 AM	Compartment Status	Loading	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:51:06 AM	Bottom Valve Sensor	Closed	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:51:23 AM	API Sensor	Closed	-26.11135333	28.1364300000	0	Metermatic	VIEW
2018-07-25 08:51:23 AM	Compartment Status	Sealed	-26.11135333	28.1364300000	0	Metermatic	VIEW

