HYTEK
FUEL & LUBRICATION EQUIPMENT

HORN TECALEMIT

SERVICE

QUICK GUIDE

HARDWARE INSTALLATION HDA

OVERVIEW

DESCRIPTION

The HDA consists of the HDA eco automatic dispenser, which is mounted in sheet metal housing. The built-in HDA eco automatic dispenser is optimised for the administration of small and medium-sized vehicle fleets and enables the administration of up to 10,000 transactions/2000 users /2000 vehicles.

Optional, additional components to create an entire tank system are the feed pump, the flow meter, and the dispensing hose with an automatic nozzle and, if applicable, a level probe or fill level switch for monitoring the level in the tank.

INTENDED USE

The HDA is designed as a Fluid Inventory Control System for use in industry, service centers, filling stations and similar facilities.
It is intended for the control of dispensing during the refueling of vehicles with liquid and pumpable operating media.

The installation and operation of the HDM / HDA **in explosion hazardous areas is not permitted. This would constitute a risk of explosion.**

PERMITTED MEDIA

All liquid and pumpable operating media including diesel, fuels, chemicals, oils, water, heating oil, coolant, DEF, windshield washer.
Please check the safety data sheet for your medium.
In the case that the medium generates explosion hazards, the user has to make sure that the used additional equipment (e.g. Pump and meter) and the electrical and mechanical installation follows the national regulations of explosion protection

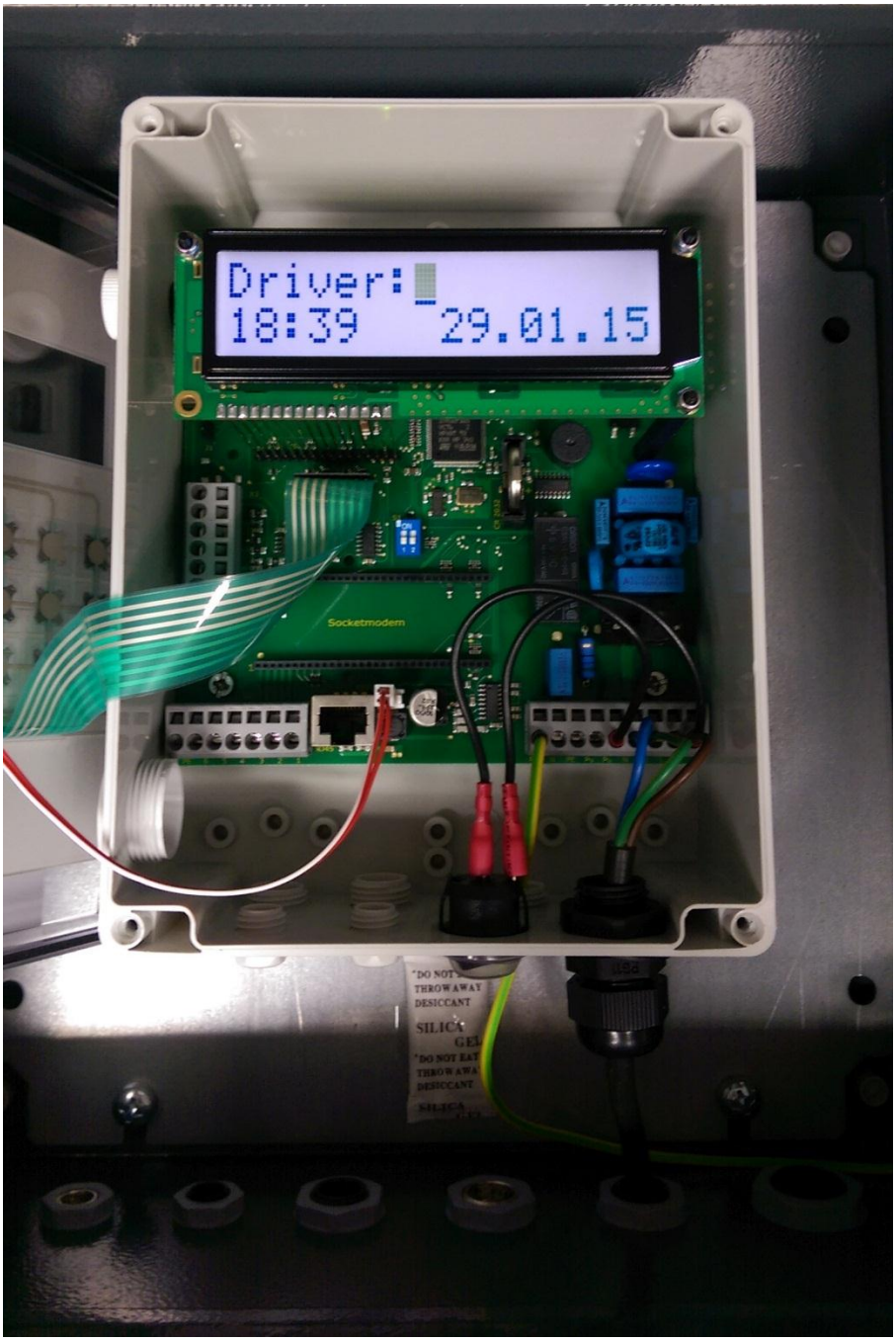
TECHNICAL DATA

Dimensions :(WxHxD)	approx300mm x 300mm x 127mm
Voltage	120v 60 Hz
Ambient temperature	-4 °F to 131°F
Protection class	IP54
Max Switched current	6.2 A
Weight	8 kg
Maximum pulse frequency for the external used flow meter	240 Hz
Maximum failure elevation of the used measuring equipment	
- for a flow meter	0,1%
- for a level sensor	1%

EXTERIOR I/O

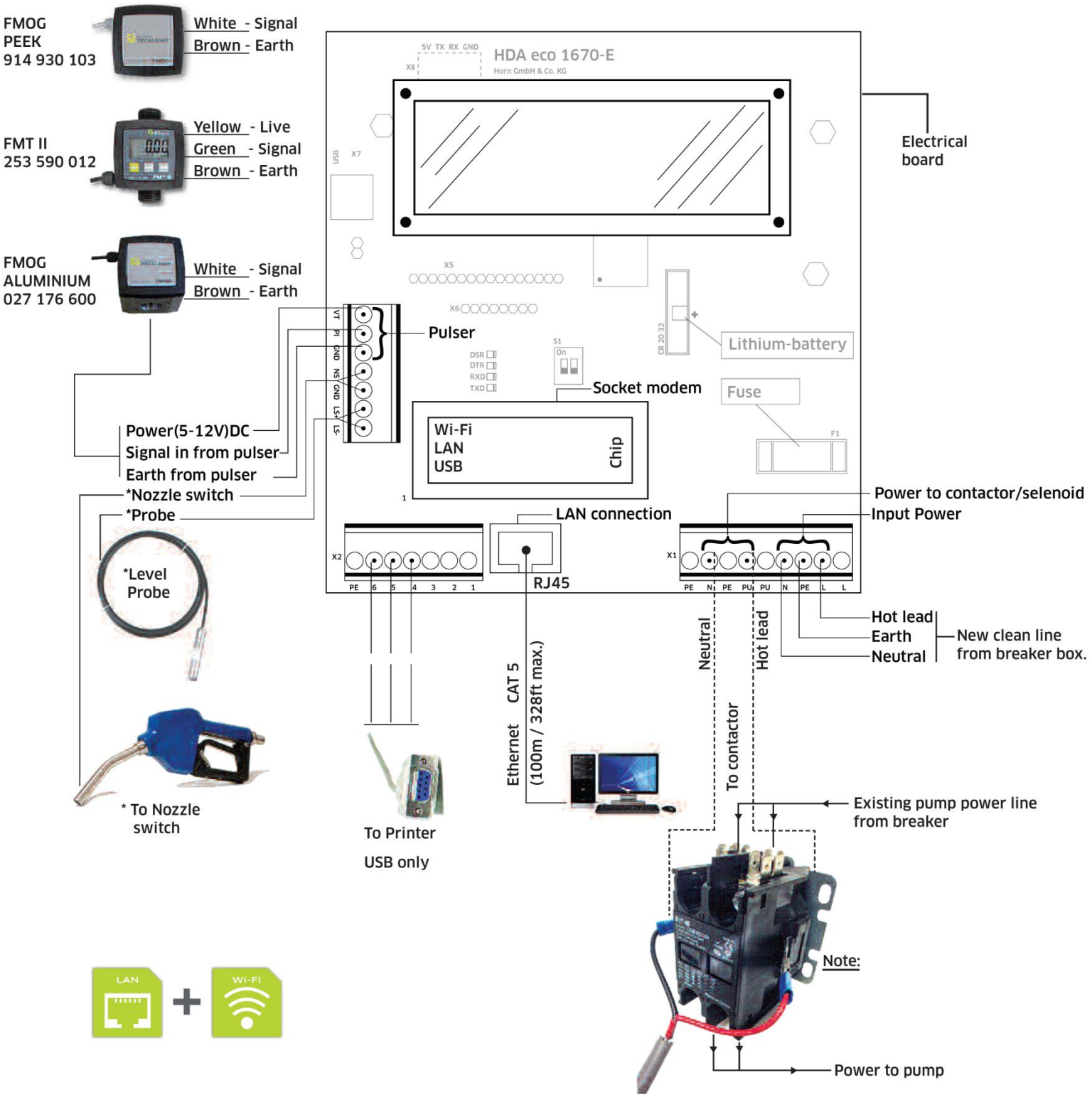

Wi-Fi
ANTENNA
(OPTIONAL)
LCD DISPLAY
KEYPAD
PULSE FLOW METER
NOZZLE SWITCH
PROBE
DATA CABLE
POWER TO PUMP
MAIN LINE IN

ELECTRICAL BOARD

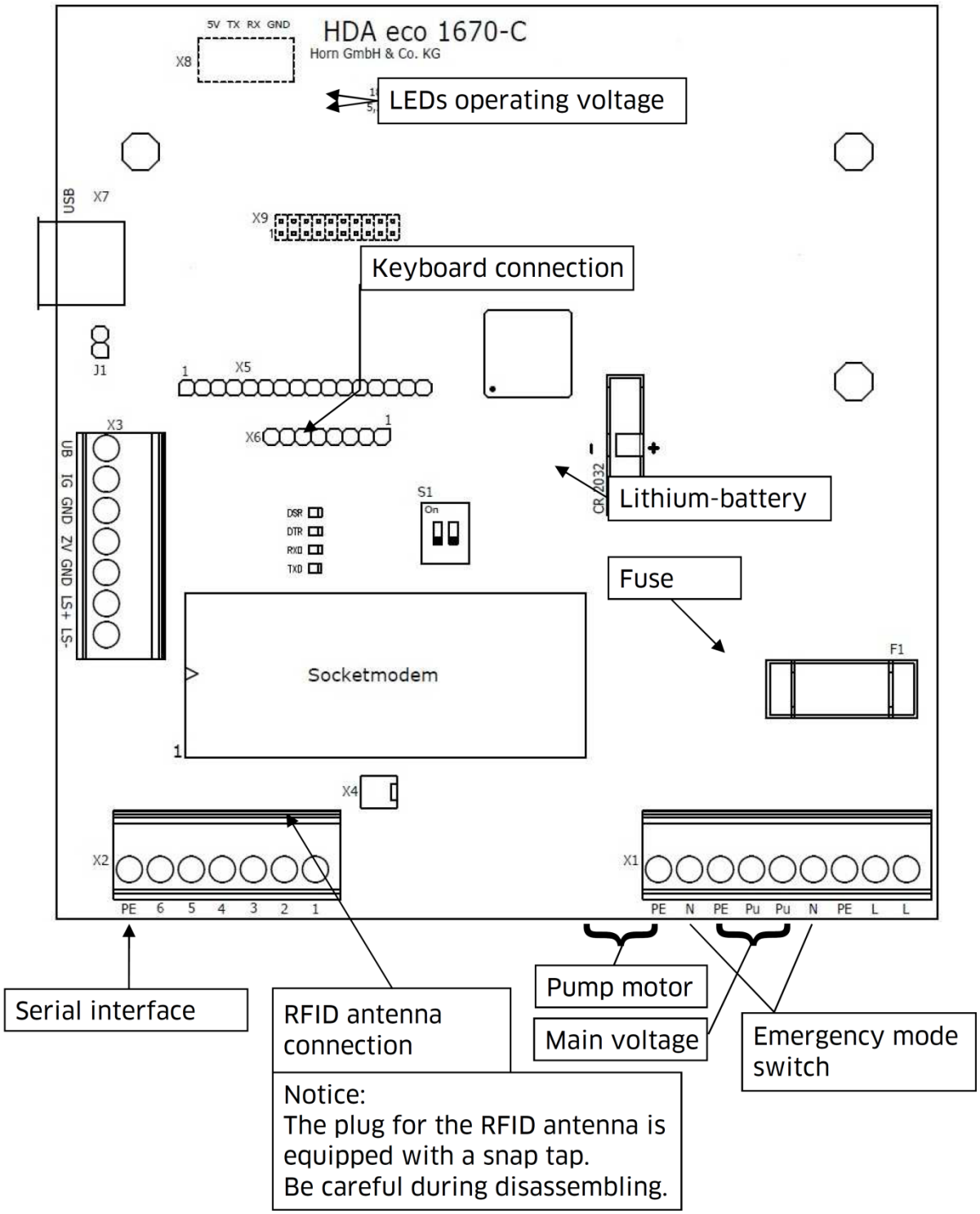


The HDA internals kept simple and straight forward. LAN and Wi-Fi capable.

ELECTRICAL CONNECTIONS



ELECTRICAL CONNECTIONS



ELECTRICAL CONNECTIONS

Terminal strip	Terminal	Signal	
X1	L	Mains voltage - live	
	PE	Mains voltage - protective earth	
	N	Mains voltage - neutral	
	Pu	Switched phase for motor	
	2. L und Pu	Emergency mode switch	
X2	**Socket modem**	**RS422**	**RS232**
	1	GND	GND
	2	TX-	DSR
	3	TX+	DTR
	4	GND	GND
	5	RX-	RX
	6	RX+	TX
	PE	Earth terminal	
X3	UB	Pulse generator operating voltage +5.2V	
	IG	Pulse input	
	GND	Pulse generator ground	
	ZV	Enabling contact (potential-free contact)	
	GND		
	LS +	Sensor (4-20 mA) operating voltage + or float switch	
	LS -	Sensor (4-20 mA) operating voltage - or float switch	
X4	RFID antenna connection		
X5	Display connection		
X6	Keyboard connection		
X7	USB port		
X8	Not used		
X9	Not used		

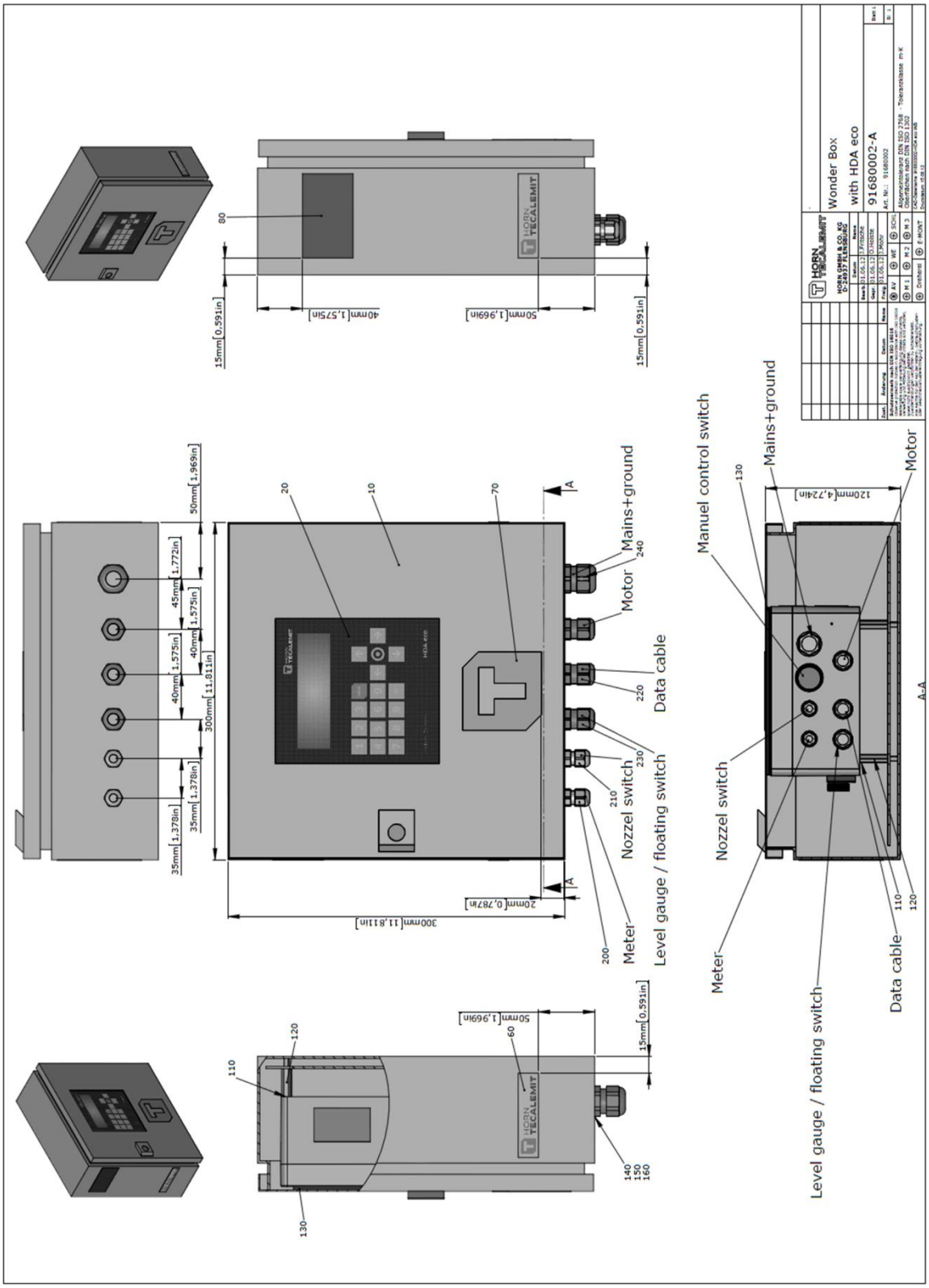
Switch

Switch	No.	Position	Operation
S1 (DIL-Schalter)	1	On	Initialisation
		Off	Normal operation
	2	On	Programming
		Off	Normal operation

LEDs

LED	Function	Comments
18V	18 V operating voltage present	
5,2V	5.2 V operating voltage present	
DSR	Serial interface signal DSR active	Remote station operational
DTR	Serial interface signal DTR active	HDA eco operational
RxD	Serial interface signal RX active	Send data
TxD	Serial interface signal TX active	Receive data

MOUNTING


Wonder Box
with HDA eco
91680002-A
Mains+ground
Motor
Data cable
Nozzel switch
Level gauge / floating switch
Meter
Manuel control switch
A-A