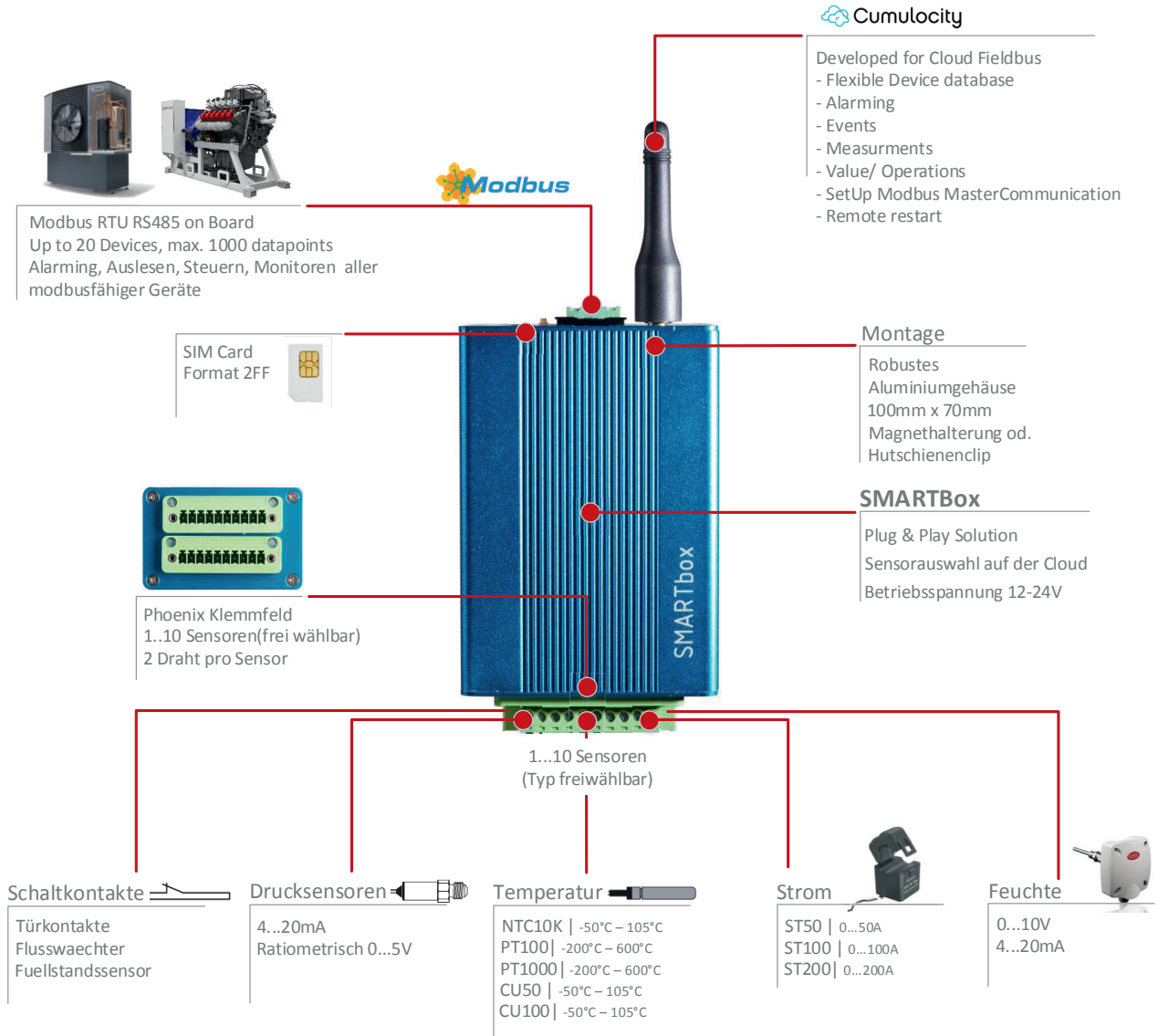


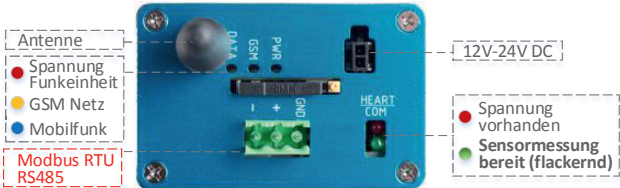
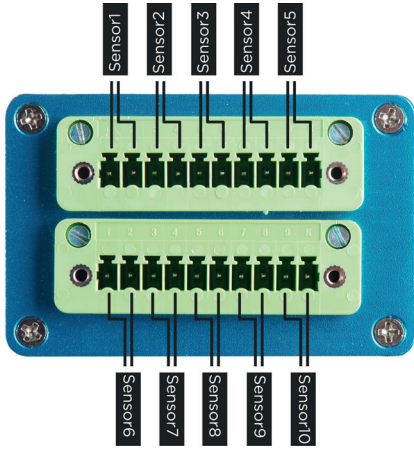

SMARTbox



Hardwarevariances

	Smartbox	HW Typ A	HW Typ B	HW Typ C	HW Typ D	HW Typ E	HW Typ F
	Max. No Sensors	10	4	10	10	10	10
Sensors	NTC	10	-	10	-	-	-
	ON/OFF (voltage free)	10	-	10	-	8	-
	PT100	-	4	10	-	-	-
	PT1000	-	4	10	-	-	-
	Cu50	-	4	-	-	-	-
	Cu100	-	4	-	-	-	-
	4..20mA	-	-	-	10	-	-
	0..10V	-	-	6	-	-	10
Fieldbus	0..5V	10	-	6	-	-	-
Out	Relais Output	-	-	1	-	-	-
Fieldbus	Modbus RS485	Yes	Yes	Yes	Yes	Yes	Yes

SMARTbox Datasheet

Change APN	Send SMS with APN to the Terminal, > 10 seconds after Power On e.g. GPRS = public4.m2minternet.com	
Send cycle Defines when a Request is initiated	Values	On Change
	Alarms	On Change
	Events	On Change
	Measurements	5s...6hours
	Signal strength	Is sent every 10 Min as a measurement
Location	Identification by cellular network	
Realtime Clock	Updating Realtime clock from timeserver at startup	
Offline Buffering	Alarm, Events, Measurements, ≈24hours	
Interfaces		
		
Modbus	Type	Modbus RTU
	Baudrate	4800, 9600, 19200 , 38400 (Change during Runtime possible)
	Parity	Even, ODD, NONE (Change during Runtime possible)
	Stoppbits	2,1 (Change during Runtime possible)
	Functioncodes	Funct. 1 (Read Single Coils) Funct.2 (Read Input Status) (set offset 10000 in Addr in CC) Funct.3 (Read Holding Registers) Funct.4 (Read Input Registers) (set offset 10000 in Addr in CC) Funct.5 (Write Coil) Funct.6 (Write Holding Register)
	Datapoints	Max. 1000 datapoints per device
Cloud Fieldbus  Cumulocity	Changing the DeviceDatabase or adding/deleting childdevices in CC is interpreted from the terminal as new Modbus Layout. The Smartbox will automatically load the new Configuration from Cloud Fieldbus. This can be also down by restoring the Smartbox or Power off and on.	
Dimensions	72 x 53.5 x 26 mm (w/o connectors) 83 x 53.5 x 26 mm (w/ connectors)	
Weight	99g	
GSM Antenne	SMA Connector	
Power Supply	Nominal voltage range: 5..30 V, 10% Maximum continuous (average) supply power: 2.5 W Maximum continuous (average) supply current: 200 mA at 12V, 100 mA at 24V	
Ambient temperature	-20..60°C	
Mounting	Via DIN Rail Adapter or Adapter for Wall Mounting	
SIM Card Format	2FF	
Communication to Cumulocity	SmartRest protocol for low data traffic	
Polling Rate	500 ms	
Change tenant	Send an SMS DELETE during run to the terminal, after >10 seconds, power off and on again, Now you can register again	