

Supported Devices

v2.1.7 - 13.08.2026



**Ing. Büro H. Lertes
GmbH & Co. KG**
www.rmccu.de

Medium	Manufacturer	Modell	Measuring Data	MPID
Heat Quantity Meter				
HQM	Kamstrup	Elvaco Plug-in Modul for Kamstrup Multical 403 / 603 / 803	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > 2x Impuls (Default 10L/Imp) > Flow Rate > Power > Meter Number > Error Flags > Impulse	HQ CQ TMPI TMPO VW VW_A /VW_B VFA PO MeterID ErrorFlags S0
HQM	Kamstrup	Elvaco Plug-in Modul for Kamstrup Multical 403C / 603C / 803C	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > 2x Impuls (Default 10L/Imp) > Flow Rate > Power > Meter Number > Error Flags > Impulse	HQ CQ TMPI TMPO VW VW_A /VW_B VFA PO MeterID ErrorFlags S0
HQM	Landis+Gyr	T230 / T330	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ CQ TMPI TMPO VW VFA PO MeterID ErrorFlags
HQM	Landis+Gyr	T230C	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Meter Number > Error Flags	HQ CQ TMPI TMPO VW MeterID ErrorFlags
HQM	Landis+Gyr	T450	> Heat Quantity > Inlet Temperature > Outlet Temperature > Power > Flow Rate > Water Volume > Meter Number > Error Flags	HQ TMPI TMPO PO VFA VW MeterID ErrorFlags
HQM	Landis+Gyr	ElvacoPlug-in Modul for L+G UH50/UC50	> Heat Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ TMPI TMPO VW VFA PO MeterID ErrorFlags
HQM	HERZ Messtechnik	Superflow-U Typ L3	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ CQ TMPI TMPO VW VFA PO MeterID ErrorFlags



Medium	Manufacturer	Modell	Measuring Data	MPID
HQM	HERZ Messtechnik	Superflow-U Typ LU	> Heat Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ TMPI TMPO VW VFA PO MeterID ErrorFlags
HQM	HERZ Messtechnik	Superflow-U Typ P8	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Battery Voltage > Meter Number > Error Flags	HQ CQ TMPI TMPO VW VFA PO V MeterID ErrorFlags
HQM	HERZ Messtechnik	Superflow-M Typ 739	> Heat Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ TMPI TMPO VW VFA PO MeterID ErrorFlags
HQM	Axioma	Qalcosonic E1/E3	> Heat Quantity > Water Volume > Status Code	HQ VW SC
HQM	Sontex	Supercal 739	> Heat Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ TMPI TMPO VW VFA PO MeterID ErrorFlags
HQM	Zenner	Zelsius C5-IUF	> Heat Quantity > Cold Quantity > Status Code	HQ CQ SC
HQM	Engelmann	Elvaco Plug-in Modul for Engelmann SensoStar S3	> Heat Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ TMPI TMPO VW VFA PO MeterID ErrorFlags



Medium	Manufacturer	Modell	Measuring Data	MPID
HQM	Engelmann	Elvaco Plug-in Modul for Engelmann SensoStar S3C	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Meter Number > Error Flags	HQ CQ TMPI TMPO VW MeterID ErrorFlags
HQM	Diehl Metering	Elvaco Plug-in Modul for Diehl SHARKY 775	> Heat Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ TMPI TMPO VW VFA PO MeterID ErrorFlags
HQM	Diehl Metering	Elvaco Plug-in Modul for Diehl SHARKY 775C	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Meter Number > Error Flags	HQ CQ TMPI TMPO VW MeterID ErrorFlags
HQM	Itron	Elvaco Plug-in Modul for Itron CF ECHO II/51/55	> Heat Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Flow Rate > Power > Meter Number > Error Flags	HQ TMPI TMPO VW VFA PO MeterID ErrorFlags
HQM	Itron	Elvaco Plug-in Modul for Itron CF ECHO II/51/55 C	> Heat Quantity > Cold Quantity > Inlet Temperature > Outlet Temperature > Water Volume > Meter Number > Error Flags	HQ CQ TMPI TMPO VW MeterID ErrorFlags
HQM	NAS	LoRaWAN Communication Modul Multical 1 For Kamstrup Multical 61/62/66/601/602/801/6M2	> Heat Quantity > Cold Quantity > Inlet Quantity > Outlet Quantity > Drink Water Volume > Tariff > Volume > Impulse > Mass > Event Counter > Info-Code > Temperature > Differential Temperature > Pressure > Flow Rate > Power > Serial Number	HEAT_ENERGY COLD_ENERGY INLET_ENERGY OUTLET_ENERGY PULSE_INPUT MASS INFO_EVENT_COUNTER TEMP DIF_TEMP PRESSURE FLOW POWER SERIAL_NUM
HQM	NAS	LoRaWAN Communication Modul Multical 1 für Kamstrup Multical 403 /603	> Heat Quantity > Cold Quantity > Inlet Quantity > Outlet Quantity > Drink Water Volume > Tariff > Volume > Impulse > Mass > Event Counter > Info-Code > Temperature > Differential Temperature > Pressure > Flow Rate > Power > Serial Number	HEAT_ENERGY COLD_ENERGY INLET_ENERGY OUTLET_ENERGY PULSE_INPUT MASS INFO_EVENT_COUNTER TEMP DIF_TEMP PRESSURE FLOW POWER SERIAL_NUM
HQM	Integra Metering	CALEC ST III	> Heat Quantity > Water Volume > Power > Flow Rate > Inlet Temperature > Outlet Temperature	HQ VW PO VFA TMPI TMPO



Medium	Manufacturer	Modell	Measuring Data	MPID
Electrical Meter				
Electrical	EMU	EMU Professional II	> Electric Energy > Power > Current > Voltage > Reactive Power > Power Factor > Frequency > Error > Signal-Noise-Ratio > Factory Number > Current Transformer Secondary > Current Transformer Primary > Voltage Transformer Secondary > Voltage Transformer Primary > Meter Type > Licensing Year > Manufacture Year > MID Measurement-Version > Certification date > Manufacturer > Hardware-Index > System Time Sensor	EE PO CUR V EQ COS HZ ERROR SNR FACT I_TRANS_S I_TRANS_P V_TRANS_S V_TRANS_P CTRL LIC_YR MFC_YR VER MID MFR HW_IDX SYSTIME
Electrical	Gossen Metrawatt	Energy MID LPWAN	> Electric Energy Import > Electric Energy Export > State	EE EED STATUS
Electrical	TIP	SINUS 85	> Electric Energy > Voltage > Current > Power > Apparent Power > Reactive Power > Power Factor > Serial Number > Frequency	EE V CUR PO ES EQ cosphi SerNum HZ
Electrical	Fludia	FM432e_ap	> Electric Energy > Time Step > 8x Energy difference > Start Number > Parameter ID > Meter Type > Low battery voltage	EE Step D1_EE .. D8_EE TT2_Start TT2_ParamID TT2_MeterType TT2_LowBat
Electrical	HERZ Messtechnik	SINUS 85 - 34T85FLR/34T51FLR	> Electric Energy > Voltage > Current > Power > Scheinleistung > Reactive Power > Power Factor > Serial Number > Frequency	EE V CUR PO ES EQ cosphi SerNum HZ
Electrical	HERZ Messtechnik	3 Point - Three-Phase-Meter DVS74.G2 Typ 34D3FLR	> Elektric Energy Import > Elektric Energy Export	EE EED
Electrical	Herholdt Controls	ECSWL03	> Electric Energy > Elektric Energy Import > Elektric Energy Export > Reactive Power > Reactive Power Import > Reactive Power Export	EE EED EER EQ EQD EQR
Electrical	EasyMeter	ESYS-LR10- Adapter für Q3M, Q3A, Q1A, T3M	> Electric Energy Import > Electric Energy Export	EED EER
Electrical	DeZem	HarvyLR 36 / 360	> Voltage > Voltage Minimal > Voltage Maximal > Voltage Amplitude > Elektrische Ladung > Elektrische Ladung Minimal > Elektrische Ladung Maximal > Elektrische Ladung Average > Current Amplification > Temperature > Last Upload > Counter > Shunt-Value > Power Loss	V Vmin Vmax Vamp Isec Isecmin Isecmax IsecAvg AmplifierGain TMP lastUploadSec CNT ShuntValue powerloss



Medium	Manufacturer	Modell	Measuring Data	MPID
Electrical	DeZem	Harvy2	> Voltage > internal Temperature > USB - Powered > AC Current Channel 1-4 > DC Current Channel 1-4 > AC Current Total > DC Current Total > Frequency Channel 1-4 > Coefficient Channel 1-4 > Voltage Mode Channel 1-4 > Active Energy Channel 1-3 > Wirkenergie Total > Power Factor Channel 1-3 > Apparent Power Channel 1-3 > Active Power Channel 1-3 > Reactive Power Channel 1-3 > Apparent Power Total > Active Power Total > Reactive Power Total	V TMP USB_powered in1(2,3,4)_ac_A in1(2,3,4)_dc_A sum_in1234_ac_A sum_in1234_dc_A in1(2,3,4)_freq in1(2,3,4)_coeff in1(2,3,4)_voltage_mode in1(2,3)_kWh sum_in123_kWh in1(2,3)_pow_factor in1(2,3)_power_apparent in1(2,3)_power_active in1(2,3)_power_reactive sum_in123_pow_app_VA sum_in123_pow_act_W sum_in123_pow_react_VAR
Electrical	iMST	IOKE868 (D0 Switch)	> Electric Energy Import > Electric Energy Export	EED EER
Electrical	VKW	Smarti (SmartMeter Austria)	> Electric Energy Import > Electric Energy Export > Power Import > Power Export > Reactive Power Import > Reactive Power Export > Meter Number	EE_Imp EE_Exp PO_Imp PO_Exp EQ_Imp EQ_Exp MeterID
Electrical	DZG	DVS74 (LoRa-Plugin)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	DZG	WS74 (LoRa-Plugin)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	DZG	DVS76 (LoRa-Plugin)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	DZG	MDVH4006 (LoRaMod-R4)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	DZG	DVH4013 (LoRaMod-R4)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	DZG	WH4013 (LoRaMod-R4)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	DZG	DVSB (Base Meter) (LoRa-Plugin)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	DZG	EHZ (LoRa-Plugin)	> Electric Energy Import > Electric Energy Export	EE EED
Electrical	Milesight (Ursalink)	WS50x	> Voltage > Power > Power Factor > Electric Energy > Current > Status Sensor	V PO PO_Factor EE CUR WS50x_STATUS
Electrical	Milesight (Ursalink)	WS52x	> Voltage > Power > Power Factor > Electric Energy > Current > Status Sensor	V PO PO_Factor EE CUR WS52x_STATUS
Electrical	Milesight (Ursalink)	WS558	> Voltage > Power > Power Factor > Electric Energy > Current > Status Sensor	V PO PO_Factor EE CUR WS55x_STATUS



Medium	Manufacturer	Modell	Measuring Data	MPID
Electrical	KLAX	KLAX (IR-Head Current Sensor) D0 (optical Attachment) Compatible with: Holley DTZ541-ZEBA / ZDBA Logarex LK13BE803039 / LK13BE803049 Itron 3.HZ-AC-H4AE / HZ-AC-D4-A1 efr SGM-C4-2A920L / 2A92TL EMH eHZ- HW8E2A5L0EL1P / GW8E2A500AX1 Norax 1APA0194540255 Landis+Gyr E320 AMxD / E350 ZMDx ISKRA MT 681-D4A51-K0p FLT Tritschler VC2 / VC3 / TC2 Elster AS3000 UltraHeat 50 eBZ DDR NZ06 ETA - ODZ1 DZG DVS74 / DVS76 / WS74 EMH/NZR DMTZ-XC	> Electric Energy Import > Electric Energy Export > Reactive Energy Import > Reactive Energy Export > Statuscode > Battery Voltage [%]	EED EER EQD EQR SC BAT_Stat
Water Meter				
WM	Axioma	Qalcosonic E1/E3	> Heat Quantity > Water Volume > Status Code	HQ VW SC
WM	Axioma	Qalsonic W1	> Water Volume > Delta Volume > Error Code	
WM	Zenner	Minomess	> Water Volume	VW
WM	Zenner	RTKD-M	> Water Volume	VW
WM	INNOTAS	Modularis (Water Meter Attachment)	> Water Volume	VW
WM	GWF	LRW 10	> Water Volume	VW
WM	SEBA	SlimCom (Groundwater Measuring Point)	> Meter Number > PT: Waterlevel & PTEC: Water Temperature > PT: Water Temperature & PTEC: Conductivity > Waterlevel > Ext. Battery	MeterID a b c F
WM	NAS	CM3022 compatible with Modularis-Meter, Maddalena CD SD PLUS EVO / CTZ, Simens WFX, Water-Meter ECO, WaterTech Polaris	> Water Volume	VW
WM	NAS	CM3022A compatible with Modularis-Meter, Maddalena CD SD PLUS EVO / CTZ, Simens WFX, Water-Meter ECO, WaterTech Polaris	> Water Volume	VW
WM	Diehl Metering	HRL-C-G3	> Transmission Time > Forward Flow 24h as Impulse > Backward Flow 24h as Impulse > Pulse-Count at Midnight > Meter Key > Pulsweight	Transmission ForwardFlow BackwardFlow MidnightIndex MeterKey PulseWeight
WM	Diehl Metering	Hydrus 2.0	> Water Volume	VW
WM	Sontex	Water SQ1 / Inline 500	> Water Volume > Meter Number	VW MeterID
WM	Integra Metering	Aquastream	> Water Volume	VW
WM	Pipersberg / Apator	Ultrimis	> Water Volume > Transmission Time > Backward Flow > Meter ID > 13 History data > Statuscode	VW cDaTi nVW MeterID D1_Vol...D13_Vol SC
WM	Kamstrup	FlowIQ_X200	> Water Volume > Statuscode > Acoustic Noise Last Day > Min. Flow Temperature > Max. Flow Temperature > 11x volume difference	VW SC NOISE FTMIN FTMAX D1_Vol .. D13_Vol
WM	HERZ Messtechnik	Waterflow U Typ U / PU Waterflow M Typ HAT	> Wasservolumen	VW



Medium	Manufacturer	Modell	Measuring Data	MPID
WM	HERZ Messtechnik	ClampOn Portabel (Ultrasonic Meter)	> Flow Rate > Water Volume > Forward Accumulation > Backward Accumulation > NET Total > Transient Energy > Heat Quantity > Cold Quantity > Unit > Quality	VFA VW FA BA NET TE HQ CQ Type QS
WM	HERZ Messtechnik	ClampOn TypV (Ultrasonic Meter)	> Flow Rate > Water Volume > NET Total > Unit > Quality > Serial Number	VFA VW NET Type QS Serial
WM	Heitland	WZG Compact Module MNK-WV+Puls	> Value of Counter1 > Value of Counter2 > Battery level > Last reset status of the device	CNT1 CNT2 BAT STAT
WM	Maddalena	LoRa-Modul for SJ EVO / UPZ EVO	> Water Volume > Transmission Time > Meter ID > 11 History data > Alarmcode	VW cDaTi MeterID D1_Vol...D11_Vol Alerts
WM	Sensus	ECCUS	> Water Volume > Transmission Time > Statuscode	VW cDaTi SC
Pulse-Zähler (S0)				
S0	Innotas	Impuls-LoRa Modul	> Counter	CNT1 , CNT2
S0	HERZ Messtechnik	Impuls-LoRa Modul	> Counter	CNT1 , CNT2
S0	Adeunis	Adeunis Impulsweiche	> Counter > Status Code	CNT1 , CNT2 SC
S0	Zenner	PDC LORA DV 2K	> Counter	CNT1 , CNT2
Heat Cost Allocator				
HCA	Innotas	Euris2-LoRa	> Heat Cost Allocator	HCA
HCA	HERZ Messtechnik	LoRa - Radio Heat Cost Allocator	> Heat Cost Allocator	HCA
HCA	Zenner	Caltos E	> Heat Cost Allocator	HCA
HCA	Sontex	878	> Heat Cost Allocator > Temperature > Meter Number	HCA TMP MeterID
Environment Sensors				
ES	ELSYS	ERS	> Temperature > Humidity > Illuminance > Room Activity > Battery Voltage	TMP RH I PIR V
ES	ELSYS	ERS Lite	> Temperature > Humidity > Battery Voltage	TMP RH V
ES	ELSYS	ERS CO2	> Air Quality > Temperature > Illuminance > Humidity > Room Activity > Battery Voltage	CD TMP I RH PIR V
ES	ELSYS	ERS CO2 LITE	> Air Quality > Temperature > Humidity > Battery Voltage	CD TMP RH V
ES	ELSYS	ERS VOC	> Air Quality > Temperature > Illuminance > Humidity > Room Activity > Battery Voltage	VOC TMP I RH PIR V



Medium	Manufacturer	Modell	Measuring Data	MPID
ES	ELSYS	ERS Eye	> Temperature > Humidity > Room Activity > Battery Voltage > Occupancy > Illuminance	TMP RH PIR V OCCUPANCY I
ES	ELSYS	ERS Sound	> Temperature > Humidity > Room Activity > Battery Voltage > Sound Peak > Sound Average > Illuminance	TMP RH PIR V SOUND_PEAK SOUND_AVG I
ES	ELSYS	ELT 2	> Temperature > Humidity > Battery Voltage > Analog - Input 1 > Impulse 1 > Impulse 1 Absolut > Temperature extern 1 > Digital – Input extern 1 > Distance extern > Acceleration > Temperature Infrared extern > Temperature Infrared intern > Water Leakage extern > Pressure > Impulse 2 > Impulse 2 Absolut > Analog - Input 2 > Temperature extern 2 > Digital – Input extern 2	TMP RH V ANALOG1 PULSE1 PULSE1_ABS EXT_TEMP1 EXT_DIGITAL EXT_DISTANCE ACC_MOTION IR_TEMP_E IR_TEMP_I WATERLEAK PRESSURE PULSE2 PULSE2_ABS ANALOG2 EXT_TEMP2 EXT_DIGITAL2
ES	ELSYS	ELT Lite	> Battery Voltage > Analog - Input 1 > Impulse 1 > Impulse 1 Absolut > Temperature extern 1 > Digital – Input extern 1 > Distance extern > Temperature Infrared extern > Temperature Infrared intern > Water Leakage extern	V ANALOG1 PULSE1 PULSE1_ABS EXT_TEMP1 EXT_DIGITAL EXT_DISTANCE IR_TEMP_E IR_TEMP_I WATERLEAK
ES	ELSYS	ELT Ultrasonic	> Temperature > Humidity > Battery Voltage > Distance extern > Acceleration > Pressure	TMP RH V EXT_DISTANCE ACC_MOTION PRESSURE
ES	ELSYS	EMS	> Temperature > Humidity > Battery Voltage > Impulse > Impulse Absolut > Digital Input > Acceleration > Water Leakage extern	TMP RH V PULSE1 PULSE1_ABS EXT_DIGITAL ACC_MOTION WATERLEAK
ES	ELSYS	EMS LITE	> Temperature > Humidity > Battery Voltage > Water Leakage extern	TMP RH V WATERLEAK
ES	ELSYS	EMS DOOR	> Acceleration > Battery Voltage > Impulse > Impulse Absolut > Digital Input	ACC_MOTION V PULSE1 PULSE1_ABS EXT_DIGITAL
ES	ELSYS	EMS DESK	> Temperature > Humidity > Battery Voltage > Acceleration > Occupancy	TMP RH V ACC_MOTION OCCUPANCY
ES	GlobalSat	LS-111P	> Temperature > Humidity > Air Quality	TMP RH CD



Medium	Manufacturer	Modell	Measuring Data	MPID
ES	Milesight (Ursalink)	AM102	> Temperature > Humidity > Air Quality > Room Activity > Pressure > Illuminance > Air Quality 2 > Battery Voltage	TMP RH CD PIR PR LR TVOC BAT
ES	Milesight (Ursalink)	AM307	> Temperature > Humidity > Air Quality > Room Activity > Pressure > Illuminance > Carbon Dioxide > Air Quality > Battery Voltage > Formaldehydes > Particulate Matter PM 2,5 > Particulate Matter PM 1,0 > Ozon Level > Status Buzzer	TMP RH CD PIR PR LR CD TVOC BAT HCHO PM25 PM10 O3 BUZZ
ES	Milesight (Ursalink)	AM308	> Temperature > Humidity > Air Quality > Room Activity > Pressure > Illuminance > Carbon Dioxide > Air Quality 2 > Battery Voltage > Formaldehydes > Particulate Matter PM 2,5 > Particulate Matter PM 1,0 > Ozon Level > Status Buzzer	TMP RH CD PIR PR LR CD TVOC BAT HCHO PM25 PM10 O3 BUZZ
ES	Milesight (Ursalink)	AM319	> Temperature > Humidity > Air Quality > Room Activity > Pressure > Illuminance > Carbon Dioxide > Air Quality > Battery Voltage > Formaldehyd > Particulate Matter PM 2,5 > Particulate Matter PM 1,0 > Ozon Level > Status Buzzer	TMP RH CD PIR PR LR CD TVOC BAT HCHO PM25 PM10 O3 BUZZ
ES	Milesight (Ursalink)	WS201	> Push-Button > Batteriespannung	Button BAT
ES	Milesight (Ursalink)	WS202	> Room Activity > Light state (1-bright, 0-dark) > Battery Voltage	PIR Light BAT
ES	Milesight (Ursalink)	EM300 TH	> Temperature > Humidity > Battery Voltage	TMP RH BAT
ES	Milesight (Ursalink)	EM500 CO2	> Temperature > Humidity > Battery Voltage > Air Quality > Pressure	TMP RH BAT CD PR
ES	Milesight (Ursalink)	EM500 SMTc	> Temperature > Soil Moisture > Battery Voltage > Conductivity	TMP RH BAT Conductivity
ES	Milesight (Ursalink)	EM500 LGT	> Battery Voltage > Illuminance	BAT I
ES	Milesight (Ursalink)	EM500 PT100	> Temperature > Battery Voltage	TMP BAT



Medium	Manufacturer	Modell	Measuring Data	MPID
ES	Dragino	LHT65	> Battery Voltage > Status Battery > Temperature > Humidity > Extern > External Temperature > Illuminance > Voltage ADC > Counter > External Pin Level > External Status	V BAT_Stat TMP RH Ext TempO I ADC_V CNT Exti_pin_level Exti_status
ES	Dragino	LDS02 (Door Sensor)	> 0: closed; 1: open > total number of door opening events > Duration of last door opening [min] > Battery Voltage[V]	ONOFF CNT OpenDur BAT
ES	Dragino	LDS03A (Outdoor Door Sensor)	> Operating State > Counter > Duration > System Time Sensor	ONOFF CNT Duration EPOCH
ES	Sensoco	LoomAir M	> Temperature > Humidity > Air Quality > Pressure > Air Quality in Percent	TMP RH CO2 PR Pct
ES	Sensoco	Laser Light	> Temperature > Humidity > Particulate Matter > Device Number > Status > Manufacturer	TMP RH Particle25 , Particle10 Device Status MFR
ES	Thermokon	NOVOS 3	> Temperature > Humidity > Air Quality CO2 > Air Quality (Volatile Organic Compounds)	TMP RH CO2 VOC
ES	Thermokon	MCS	> Temperature > Humidity > Illuminance > Occupancy	TMP RH I OCCUPANCY
ES	Browan	Browan DW (Window- / Door-Sensor)	> Operating State > Battery Voltage > Temperature > Counter > Operating Time	ONOFF V TMP CNT OH
ES	Browan	MerryloT Open/Close	> Operating State > Push-Button > Manipulation > Tilt-Position > Open Duration > Temperature > Humidity > Counter > Battery Voltage	ONOFF Button Tamper Tilt Duration TMP RH CNT V
ES	Zenner	Easy Protect Radio (Smoke Detector)	> Status Code	SC
ES	Thermokon	AGS55+ (Outdoor Sensor)	> Temperature	TMP
ES	Thermokon	FTA54+ (Outdoor Sensor)	> Temperature > Humidity	TMP RH
ES	Thermokon	WSA (Outdoor Sensor)	> Temperature > Humidity	TMP RH
ES	Thermokon	LA+ (Outdoor Sensor)	> Air Quality CO2 > Air Quality (Volatile Organic Compounds) > Temperature > Humidity	CO2 VOC TMP RH
ES	Thermokon	Li65+ (Outdoor Sensor)	> Temperature > Humidity > Illuminance > Atmospheric Pressure	TMP RH I PRESSURE
ES	Thermokon	FTK+ (Duct-Sensor, Temp, Humiditys)	> Temperature > Humidity	TMP RH



Medium	Manufacturer	Modell	Measuring Data	MPID
ES	Thermokon	AKF10+ (Duct/submersible sensors e.g. piping systems)	> Temperature	TMP
ES	Thermokon	LK+ (Air Quality Sensor)	> Air Quality CO2 > Air Quality (Volatile Organic Compounds) > Temperature > Humidity	CO2 VOC TMP RH
ES	Thermokon	MWF+ (Average value - Channel Sensor)	> Temperature Average	TMP
ES	Thermokon	WK02+ (Condensation Sensor)	> Temperature > Humidity > Conductivity	TMP RH
ES	Enerthing	enerSENSE CO2	> Temperature > Humidity > Motion > Air Quality CO2 > Illuminance	TMP RH MOTION CO2 I
ES	SenseCap	S210X (Ambient Sensor) S2101, S2102, S2103, S2104, S2105	> Temperature > Luftfeuchtigkeit > Lichtintensität > Luftqualität CO2 > Bodentemperatur > Bodenfeuchtigkeit > Leitfähigkeit des Erdboden > Batteriespannung	TMP RH I CO2 Soil_TMP SMOS EC V
Other				
Actuator	Enginko	MCF-LW13IO (Actuator)	> Time > Input > Output	Time IN1 OUT1
Light Controller	NAS	UL20XX (Lichtsteuerung)	> Active Energy > Active Power > Load side energy > Load side power > mains voltage > power factor > driver operating time > lamp on time > lamp error > metering communication > voltage alert > power alert > dimming level	active_energy active_power load_side_energy load_side_power mains_voltage power_factor driver_operating_time lamp_on_time lamp_error lamp_error_/_failure metering_com voltage_alert power_alert dimming_level
GPS	Lobaro	GPS-Tracker V3	> Temperature > Battery Voltage > Latitude > Longitude > Height > Application State > Satellite Count > Horizontal Spreading Ratio > Time > Time Difference	TMP V Lat Lon Alt AppState SatCnt HDOP Time TimeMove
GPS	Digital Matter	Oyster3 (GPS-Sensor)	> Latitude > Longitude > Battery Voltage > Speed	Lat Lon V Speed
Parking Space	Bosch	TPS110 EU PLS (Parking Space Sensor)	> Status Occupancy	ONOFF
Parking Space	PNI	PlacePod (Parking Space Sensor)	> Status Occupancy > Temperature > Battery Voltage	ONOFF TMP V
TMP	Adeunis	Temperature sensor with external probe	> Temperature > Interne Temperatur > Status Code	TMP TMPI SC
DI / DO Actuator	Adeunis	110540L Dry Contacts (DI/DO)	> Counter1 > Counter2 > Counter3 > Counter4 > Operating State 1 > Operating State 2 > Operating State 3 > Operating State 4 > Status Code	CNT1 CNT2 CNT3 CNT4 ONOFF1 ONOFF2 ONOFF3 ONOFF4 SC



Medium	Manufacturer	Modell	Measuring Data	MPID
DI / DO Actuator Modbus Analog Input	Milesight (Ursalink)	UC11xx	> Digital Input > Digital Output > Counter > Analog Input > Modbus Input/Holding Register	DI DO CNT AI MODBUS
DI / DO	Dragino	LT-22222-L LoRa I/O Controller	> 3 Digital Input > 3 Digital Output > Relais Output > 2 Analog Input - Voltage > 2 Analog Input - Current	DI DO RO AVI ACI
Modbus	Dragino	RS485-LN	> Modbus Input/Holding Register	
Modbus	Adeunis	Modbus RS232/RS485	> Modbus Input/Holding Register	
Modbus to LoRa	Milesight (Ursalink)	UC100	> Modbus Input/Holding Register	MODBUS
Field Test Device	Adeunis	Field Test Device	> Operating State	ONOFF
4-20mA/0-10V	Adeunis	Analog (4-20mA / 0-10V)	> Status Code > Typ 1 > Current 1 > Typ 2 > Current 2	SC Type 1 I1 Type 2 I2
Distance	DecentLab	DL-MBX (Ultrasonic Sensor)	> Distance > Counter > Battery Voltage > Flags > Device Number > Version	D CNT V Flags Device_ID Version
Distance	Dragino	LLDS12 (Lidar)	> Distance > Battery Voltage > Temperature > Temperature intern > Distance Signal Strength	D V TMP TMPI DS
Distance	Dragino	LLDS75/45 (Distance Sensor)	> Distance > Battery Voltage > Temperature	D V TMP
Distance	Milesight (Ursalink)	EM310-UDL	> Distance > Position > Battery Voltage	D Pos BAT
Distance	Milesight (Ursalink)	EM500 UDL	> Battery Voltage > Distance	BAT D
Distance	Milesight (Ursalink)	EM400 TLD	> Battery Voltage > Temperature > Distance > Position	BAT TMP D Pos
Distance	Milesight (Ursalink)	EM400 MUD	> Battery Voltage > Temperature > Distance > Position	BAT TMP D Pos
Distance	Milesight (Ursalink)	EM400 UDL	> Battery Voltage > Temperature > Distance > Position	BAT TMP D Pos
Distance/ Level	Enginko	EGK-LW20xxx	> Voltage > Height > Distance > Fill level > Temperature > Humidity > Pressure > Battery Voltage	V Height Distance Fill_level TMP RH PR BAT
Distance / Level	Vega	VEGAPULS Air 23/41 (Level Measurement)	> Distance > Battery Voltage > Temperature > NAMUR Code > Unit > Latitude > Longitude > Status Code > Angle	D Bat TMP NAMUR UNIT LAT LON SC Angle



Medium	Manufacturer	Modell	Measuring Data	MPID
Distance / Level	Milesight (Ursalink)	EM500 SWL	> Battery Voltage > Level	BAT Level
Distance / Level	Sentinum	Apollon-Q	> Software-Version > Uplink-Counter > Battery Voltage > Internal Temperature > Alarm State > Distance Value > State ToF-Sensor > Distance Value ToF-Sensor > State Radar > Number of Peaks > Distance of Peaks in mm > Amplitude of Peaks > State Opening-Sensor > Orientation of the Sensor > State Open > Number of openings > State Vandalism detection	major_version up_cnt V TMP alarm master_value tof_status tof_distance radar_status radar_no_peaks radar_distance radar_amplitude acc_status acc_orientation acc_open acc_open_cnt acc_impact
Leakage	Dragino	LWL01/LWL02 (Water Leakage-Sensor)	> 00: no leak; 01: leak > Total number of leakage events > Duration of last leak [min] > Battery Voltage[V]	ONOFF CNT LeakDur BAT
Leakage	Dragino	LWL04 (Water Leakage-Sensor)	> 00: no leak; 01: leak > Total number of leakage events > Duration of last leak [s] > Battery Voltage[V]	ONOFF CNT LeakDur BAT
Leakage	Thermokon	LS02+ flex (Leakage-Sensor)	> Conductivity > Leakage > Leakage-Value	LECKAGE LECKAGE_VALUE
Leakage	Mclimate	Flood Sensor (Leakage-Sensor)	> Leakage > Tamper > Battery Voltage > Temperature	Flood boxTamper V TMP
Leakage	Honeywell	HVSS R110 (Methane Gas Leak Sensor)	> Temperature [C] > Humidity [%] > Pressure [hpa] > Methane Concentration [ppm] > Latitude > Longitude > Altitude > Battery Voltage [%]	TMP RH PR CH4 GPS_Lat GPS_Long GPS_Alt Bat
Moisture	Dragino	LSE01	> Battery Voltage > Temperature > Moisture > Soil conductivity	V TMP RH EC
Feuchte	Dragino	LTC2	> Temperature > Battery Voltage > Timestamp	TMP BAT s
Moisture	Dragino/Trübner	Dragino RS485-BL- SMT100 / LSE01 (Moisture in the soil)	> Soil Moisture > Temperature > Battery Voltage > Dielectric Constant > Counter	SMO TMP V DK CNT
Moisture	Dragino/Treesense	Treesense-Sensor (Moisture in trees)	> Temperature > Battery Voltage > Resistance	TMP V R
Pressure	Milesight (Ursalink)	EM500 PP	> Battery Voltage > Pipe Pressure	BAT PPr
Pressure/Gas	Thermokon	DPA+ (Sensor for gaseous media)	> Pressure > Volumetric Current > Differenzdruck	PRESSURE VFA D_PRESSURE
Gas	NAS	CM3063 - LoRaWAN BK-G Modul compatible with Elster BK-G1,6 bis BK-G100 with Index Z3/Z6	> Gas Volume	VG
Gas	NAS	CM3063A - LoRaWAN BK-G Modul compatible with Elster BK-G1,6 bis BK-G100 with Index Z3/Z6	> Gas Volume	VG
Gas	NAS	CM3013 / 3010 - LoRaWAN Module compatible with Elster/Honeywell Encoder AE2, AE3 and AE5 gas	> Gas Volume	VG
Gas	NAS	CM3013A / 3010A - LoRaWAN Module compatible with Elster/Honeywell Encoder AE2, AE3 and AE5	> Gas Volume	VG
Gas	Jooby	Jooby EPHIR RMS LoRaWAN	> Gas Volume	VG



Medium	Manufacturer	Modell	Measuring Data	MPID
Gas	HERZ Messtechnik	Gasflow-K Typ 52	> Gas Volume > Temperature > Flow Rate	VG TMP VFA
Gas / Water	Fludia	FM432g-n ap	> Gas / Water Volumen > Time between measurement > the last 8 Delta-Values	VG / VW Step D1(...8)_Vol
Thermostat	Mclimate	Vicki (Thermostat)	> Temperature > Humidity > Target Temperature > Position Heating System > Area Heating System > Open Window > Child Lock > Maximal Consumption > Minimal Consumption > Sensor Status > Battery Voltage	TMP RH TARGET_TMP MotorPos MotorRange OpenWindow ChildLock MotorHighConsum MotorLowConsum Sensor_Status V
Thermostat	Micropelt	MLR003R (Thermostat)	> Valve Position > Temperature-Inlet > Temperature-Inlet Offset Correction > Temperature Area > Temperature Area Offset Correction > Status Batterie > Status Energieerzeugung > Status Area Sensor > Status Inletsensor > Status Radio Loss > Status RSSI > Status Motor > Energy Storage > Power Consumption > Power Generation > Operating State > Status Energy Storage > Status Reference > User Mode > Value - User Mode	CVP FSRV FTMP ASRV ES HA ASF FSF RCE RSS ME STV ACC ACG OFF SFC REFC UM UV
Thermostat	Mclimate	SAB07 (Thermostat)	> Temperature > Humidity > Target Temperature > Position Heating System > Area Heating System > Open Window > Child Lock > Maximal Consumption > Minimal Consumption > Sensor Status > Battery Voltage	TMP RH TARGET_TMP MotorPos MotorRange OpenWindow ChildLock MotorHighConsum MotorLowConsum Sensor_Status V
Thermostat	Milesight (Ursalink)	WT101 (Thermostat)	> Battery Voltage > Ambient temperature > Target Temperature > Valve Position > Tamper State > Open Window detection > Motor Calibration > Max. Valve Position > Freeze Protection > Motor Position	BAT TMP TARGET_TMP ValveOpening TamperStatus OpenWindow MotorCalResult MotorStroke FreezeProtection MotorPos
Thermostat	Eurotronic	Stella Pro	> Battery level > Temperature > User temperature change > Target Temperature	BAT TMP TMP_CHANGED TARGET_TMP
Thermostat	Eurotronic	Stella R	> Battery level > Temperature > User temperature change > Target Temperature	BAT TMP TMP_CHANGED TARGET_TMP
Position/Motion	SENSA.IO	Valve Position Sensor (Motion/-Position sensor)	> Valve position > Battery Voltage > Temperature > Error Code > Shock	ValveOpening BAT TMP Error g/ms
Rainfall	DecentLab	DL-TBRG (Rainfall)	> Rainfall during Intervall > Intervall-Length > Rainfall Total > Battery Voltage	Precipitation Interval AccumPrecipitation BAT



Medium	Manufacturer	Modell	Measuring Data	MPID
Weather Station	DecentLab	DL-ATM41-G2 (Weather Station)	> Solar Radiation > Precipitation > No. of Lighting Strikes > average Lighting Distance > Wind Velocity > Wind Direction > Maximum Wind Velocity > Air temperature > Air Pressure > Relative Air Humidity > Device Temperature > Tilt Angle X/Y > Precipitation Conductivity > Total Precipitation > Battery Voltage	SolarRadiation Precipitation LightningStrikes LightningDistance VWind DWind VWindMax TMP PR RH TMP_dev Tilt_angle_X/Y PrecipCond PrecipTotal BAT
Weather Station	SenseCap	S2120 (Weather Station)	> Temperature > Humidity > Illuminance > UV-Index > Wind Velocity > Wind Direction > Rainfall > Barometric Pressure > Battery Voltage > Error Code	TMP RH I UV_Index VWind DWind Rainfall PR BAT Error
Weather Station	Barani	Meteowind_IoT_Pro	> Voltage threshold test > Wind speed > Gust value > Wind direction > Time	V m/s m/s deg s
Weather Station	Barani	Meteohelix_IoT_Pro	> Voltage threshold test > Temperature > Humidity > Pressure > Irradiation > Rain	V C % Pa W/m2 clicks/pulses
Weather Station	DecentLab	DL-ATM22 (Wind meter)	> Wind speed > Wind direction > Air temperature > Battery voltage > Irradiation > Rain > Pressure	m/s deg C BAT W/m2 clicks/pulses Pa
Gateway	ADFweb	HD67D15: M-Bus to LoRaWAN Gateway	> Up to 20 M-Bus loads	
Gateway	Lobaro	Lobaro GW wMBus to LoRa	> Battery Voltage > Temperature > State Code	BAT TMP STAT
Gateway	Milesight (Ursalink)	UC300	> Digital Input > Counter > Digital Output > Temperature PT100 > Analogue Output > Modbus Input/Holding Register	DI_x CNT_x DO_x PT100_x AI_x MODBUS_x
Others	Dragino	LSN50 v2	> Battery Voltage > Temperature > Humidity > Illuminance > Distance > Distance Signal Strength > AD-Converter CH0V > AD-Converter CH1V > AD-Converter CH4V > Operating State > External Trigger > Status Door > Temperature C1 > Temperature C2 > Temperature C3 > Weight > Counter	V TMP RH I D DSS ADC_CH0V ADC_CH1V ADC_CH4V OnOff EXTL_Trigger Door_Status TempC1 TempC2 TempC3 Weight CNT
Other	Skiply	Smilio A - Multiservices	> Counter 1 > Counter 2 > Counter 3 > Counter 4 > Counter 5 > Voltage	CNT CNT2 CNT3 CNT4 CNT5 V



Medium	Manufacturer	Modell	Measuring Data	MPID
Other	dnt	dnt-LW-ESI - Energy Sensor(d0, LED-Impulse) - Impulse- Gas meter, compatible with Itron (Pipersberg, Actaris) Metrix (Aparator) Elster (Kromschroder, Honeywell)	> Battery Voltage > Power > Energy Consumption High Tariff > Energy Consumption Low Tariff > Total Energy Supply > Flow > Volume Gas > Error Code	BAT PO EED1 EED2 EER VFA VG SC
Others	Honeywell	HVT R110 (Multivariable Transmitter for Condition monitoring)	> Temperature [C] > Surface temperature [C] > Air Pressure [hPa] > Humidity [%] > Vibration Acceleration_X > Vibration Acceleration_Y > Vibration Acceleration_Z > Vibration velocity_X > Vibration velocity_Y > Vibration velocity_Z > Average Sound Pressure Level [dB SPL] > Battery Voltage [%] > Temperature C1 > Temperature C2 > Temperature C3 > Weight > Counter	TMP TMP APR AH VA_X VA_Y VA_Z VV_X VV_Y VV_Z ACOUST BAT TempC1 TempC2 TempC3 Weight CNT
Other	MMM	MMM / Arbor Revital: ioT4H2O	> Resistance R1 > Resistance R2 > Resistance R3 > Resistance R4 > Resistance R5 > Resistance R6 > Voltage U1 > Voltage U2 > Voltage U3 > Battery Voltage > Voltage Uexit	Ohm Ohm Ohm Ohm Ohm Ohm V V V BAT V