SMART EDGE ===

Amperometric Chlorine Analyzer





SMART EDGE ===

Customized Multi-Parameter Analyzer

Each SMART EDGE analyzer can measure up to 6 parameters, including free or total chlorine, pH, temp, ORP, conductivity and turbidity. Its versatility significantly lowers costs by eliminating the need to purchase multiple analyzers.

SMART

NET %%

Versatile Measurement Range for Diverse Applications

SMART EDGE can work with a variety of residual chlorine electrodes, supporting a versatile measurement range to meet diverse application and customer requirements.

Advanced User Interface with Intuitive and Friendly Menu

SMART EDGE's user interface is the most advanced in the market today. Actions that are usually considered complicated - such as toggling parameters on and off, defining thresholds and alerts, connecting 4/20 mAmp outputs and adjusting relays, have been simplified for non-technical staff. Data can be easily visualized on-site as tables or graphs, allowing all levels of personnel to benefit from the system's advanced capabilities.

Connect Better, Know Better, Operate Better, Protect Better

SMART EDGE can easily be connected to the Blue I secured online data-center via Ethernet, Wifi, or cellular. This connection gives the operator full remote access to the measured data as well as to the operation and maintenance interface. The operator can also access real-time assistance and troubleshooting from an authorized representative, ensuring optimal service and saving time, energy and money.





Water Intelligence Made Simple



Versatile electrodes options

Free chlorine 0-20 ppm; 0-5 ppm; 5-200 ppm



Total chlorine 0-20 ppm

Reagent-less chlorine measurement

Long life and stable chlorine electrodes

Multi-parameter analysis of free or total chlorine, turbidity, pH, ORP, temp, EC, pressure and flow



Robust enclosure (IP65 rating) suitable for outdoor installations



DISPLAY

Intuitive and wide 7" touchscreen

Up to 6 months of data logging capacity, stored and available when needed

 Past data, event history and calibration records available on device as tables and graphs

INPUTS AND OUTPUTS

Up to 2 optional 4/20 mA inputs (fully displayed)
 Up to 8 optional 4/20 mA outputs (any parameter)
 Up to 8 optional relays (any parameter)

COMMUNICATION

 Ready-to-connect with Blue I's secured online data-center Smart NET

 Full remote access to view data as well as to modify settings, thresholds and alarms through Smart NET

Real-time text messages and email alerts through Smart NET

Technical Specification



MEASURED PARAMETERS	
Chlorine electrode	Free Chlorine standard range 0.05-20 ppm or
(One electrode for analyzer)	Free Chlorine low range 0.01-5* ppm or
	Free Chlorine high range 5-200* ppm or
	Total Chlorine standard range 0.05-20 ppm
Internal Flow Cell	Chlorine, pH, Temp, ORP, Conductivity
External connection	Turbidity or TurbiPlus
External connection	Two optional 4/20 mA inputs (fully displayed)
FREE CHLORINE STANDARD RANGE (0.05-20 PPM) MEASUREMENT	
Free Chlorine Electrode	Passive-operated Chlorine sensor with gold
	cathode & silver/silver chloride anode
Measurement Range	0.05-20 ppm
Accuracy	± 2 % or ± 0.01 ppm whichever is greater
Minimum Detection Limit	0.05 ppm
pH operation range	4 to 8
TOTAL CHLORINE STANDARD RANGE (0.05-20 PPM) MEASUREMENT	
Total Chlorine Electrode	Chlorine sensor with membrane-covered,
	amperometric 3-electrode system, with greatly
Measurement range	reduced pH-dependence 0.05-20 ppm
Accuracy	± 4 % or ± 0.01 ppm whichever is greater
Minimum Detection Limit	0.05 ppm
pH operation range	4 to 12
TURBIDITY (TurbiPlus) MEASUREMEN	
Sensor	White LED Light (90° and 180°)
Measuring Range	0-20 NTU or 0-100 NTU
Accuracy	4% ± 0.05 NTU
pH MEASUREMENT	
Electrode	Ceramic diaphragm and gel filling
Measurement Range	0 to 12
Measurement Range ORP (REDOX) MEASUREMENT	0 to 12
	0 to 12 Ceramic diaphragm and gel filling
ORP (REDOX) MEASUREMENT	
ORP (REDOX) MEASUREMENT Sensor	Ceramic diaphragm and gel filling
ORP (REDOX) MEASUREMENT Sensor Measurement range	Ceramic diaphragm and gel filling
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT	Ceramic diaphragm and gel filling 0 to 2000 mV
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F)
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-500 µS/cm
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE)	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-500 µS/cm 2% 20-500 µS/cm 4% 500-5000 µS/cm Pressure membrane
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE)	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-500 µS/cm 2% 20-500 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi)
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-500 µS/cm 2% 20-500 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE)	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 μS/cm 2% 20-5000 μS/cm 4% 500-5000 μS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 μS/cm 2% 20-5000 μS/cm 4% 500-5000 μS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-500 µS/cm 2% 20-500 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-500 µS/cm 2% 20-500 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL Flow sensor	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-500 µS/cm 2% 20-500 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL Flow sensor OPERATIONAL REQUIREMENTS	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC Inductive proximity switch
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL Flow sensor OPERATIONAL REQUIREMENTS Sample and drain connection	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC Inductive proximity switch Pressurized sample inlet and gravity drain
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL Flow sensor OPERATIONAL REQUIREMENTS Sample and drain connection Inlet Pressure range	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC Inductive proximity switch Pressurized sample inlet and gravity drain 0.35 to 10 Bar (5 to 145 psi)
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL Flow sensor OPERATIONAL REQUIREMENTS Sample and drain connection Inlet Pressure range Operating Pressure	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC Inductive proximity switch Pressurized sample inlet and gravity drain 0.35 to 10 Bar (5 to 145 psi) 0.35 to 1 bar (5-14.5 psi) 35-60 l/h (9-16 gph) 2°C to 50°C (35.6°F to 122°F)
ORP (REDOX) MEASUREMENT Sensor Measurement range TEMPERATURE MEASUREMENT Sensor Measurement range CONDUCTIVITY MEASUREMENT Sensor Measurement Range Accuracy PRESSURE SENSOR (MAIN LINE) Type Measurement range Accuracy Resolution FLOW MEASUREMENT (MAIN LINE) Measurement range Power supply ANLYZER FLOW CONTROL Flow sensor OPERATIONAL REQUIREMENTS Sample and drain connection Inlet Pressure range Operating Pressure Measuring cell flow rate	Ceramic diaphragm and gel filling 0 to 2000 mV PT-100 1°C to 50°C (35°F to 122°F) k=1 cell constant conductivity 20-5000 µS/cm 2% 20-5000 µS/cm 4% 500-5000 µS/cm Pressure membrane 0 -10 bar (0 -145 psi) 3% FS 0.01 bar 0-5000 pulses per minute 12V DC Inductive proximity switch Pressurized sample inlet and gravity drain 0.35 to 10 Bar (5 to 145 psi) 0.35 to 1 bar (5-14.5 psi) 35-60 l/h (9-16 gph)

MECHANICAL DATA		
Dimensions	(L x W x D)	
Electronics enclosure	280 x 380 x 180 mm / 11.0 x 15.0 x 7.1 inch	
Lab enclosure	560 x 380 x 180 mm / 22.0 x 15.0 x 7.1 inch	
Complete enclosure	840 x 380 x 180 mm / 33.0 x 15.0 x 7.1 inch	
Weight	16 kg (35.2 lbs.)	
Enclosure rating	IP 65 (Polycarbonate)	
Cable entries	PG 7 and PG 9 cable glands	
UV resistance	UL 508	
Display	7" Touchscreen display	
ELECTRICAL CONNECTION		
Power supply	100-115 VAC, 50/60 Hz	
(Earth ground required)	200-230 VAC, 50/60 Hz	
Maximum power consumption	Up to 50 VA	
Power supply for RTC	3V coin Battery memory (CR2032)	
RELAYS		
8 outputs, any parameter	250 VAC/DC 8 Amp max per channel	
Maximal Amp for all relays	24 Amp	
Control functions options	Above / below set point with hysteresis	
	Inside / outside range	
	PID PWM/PFM (manually configured)	
ANALOG INPUTS/OUTPUTS		
Inputs	0 or 2 analog 4/20 mA inputs	
	Internal 24 V power supply up to 50 mAmp	
Outputs	0 or 4 or 8 analog 4/20 mA outputs	
Source	Any of the measurements	
DIGITAL OUTPUTS		
DIGITAL OUTPUTS Modbus RS 485	Twisted pair up to 100 m (328 feet)	
	Twisted pair up to 100 m (328 feet) USB type B connector up to 5 m (16.4 feet)	
Modbus RS 485 Modbus RS 485		
Modbus RS 485 Modbus RS 485 DATA LOGGING	USB type B connector up to 5 m (16.4 feet)	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time	USB type B connector up to 5 m (16.4 feet) about 6 months	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle)	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP)	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 3G/4G GSM (USB dongle Modem)	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 3G/4G GSM (USB dongle Modem)	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Communication options	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 3G/4G GSM (USB dongle Modem)	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Communication options ANALYZER SECURITY ACCESS Privilege use and password	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 3G/4G GSM (USB dongle Modem) Internal Wi-Fi or external Wi-Fi dongle User / Engineer	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Communication options ANALYZER SECURITY ACCESS Privilege use and password ANALYZER INTERFACE AND CONTROL	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 3G/4G GSM (USB dongle Modem) Internal Wi-Fi or external Wi-Fi dongle User / Engineer	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Blue I SMART NET SERVER Communication options ANALYZER SECURITY ACCESS Privilege use and password ANALYZER INTERFACE AND CONTROL Raspberry PI	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 3G/4G GSM (USB dongle Modem) Internal Wi-Fi or external Wi-Fi dongle User / Engineer	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Blue I SMART NET SERVER Communication options ANALYZER SECURITY ACCESS Privilege use and password ANALYZER INTERFACE AND CONTROL Raspberry PI CERTIFICATIONS	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 3G/4G GSM (USB dongle Modem) Internal Wi-Fi or external Wi-Fi dongle User / Engineer	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Communication options ANALYZER SECURITY ACCESS Privilege use and password ANALYZER INTERFACE AND CONTROL Raspberry PI CERTIFICATIONS US EPA Accepted method	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 36/46 GSM (USB dongle Modem) Internal Wi-Fi or external Wi-Fi dongle User / Engineer Yes	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Communication options ANALYZER SECURITY ACCESS Privilege use and password ANALYZER INTERFACE AND CONTROL Raspberry PI CERTIFICATIONS US EPA Accepted method UL Certified	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 36/46 GSM (USB dongle Modem) Internal Wi-Fi or external Wi-Fi dongle User / Engineer Yes Yes	
Modbus RS 485 Modbus RS 485 DATA LOGGING Average logging period time Recording Interval All sensors reading history All events and calibtration history Data download COMMUNICATION TO SCADA OR REMO SCADA or FTP site Blue I SMART NET SERVER Communication options ANALYZER SECURITY ACCESS Privilege use and password ANALYZER INTERFACE AND CONTROL Raspberry PI CERTIFICATIONS US EPA Accepted method	USB type B connector up to 5 m (16.4 feet) about 6 months 1 minute YES (cyclic-configurable cycle) YES (cyclic-configurable cycle) USB flash drive TE SERVER One way communication CSV files (FTP / SFTP) One way or two way communication Complete view and control TCP IP LAN connection 36/46 GSM (USB dongle Modem) Internal Wi-Fi or external Wi-Fi dongle User / Engineer Yes	

