

TETRAEDRE, THE COMPANY



SWISS-MADE PROFESSIONAL IOT & TELEMETRY SOLUTIONS

Founded in 1999 in Auvernier, Switzerland, Tetraedre is a swiss company specialising in the development and sale of remote data transmission solutions, particularly for battery powered applications. Tetraedre is active in various fields such as: hydrogeology, geotechnics, electricity, water & gas related activities, waste management, energy efficiency, district heating,

and so on. Tetraedre has been present in the IoT industry for more than 20 years thanks to the development of versatile and reliable telemetry devices. The main advantage of Tetraedre devices is that their power consumption is very low. This allows their battery to last for many years (up to 10 years) and to be self-sufficient in remote areas.



TETRAEDRE

TRMC-19 FAMILY



SCIENCE



ENERGY



INDUSTRY



THE ULTIMATE DATALOGGER BATTERY-POWERED SMART METERING WITH INTEGRATED 2G-3G-4G

- ONE-LOGGER-FITS-ALL (READS VIRTUALLY ANY UTILITIES METER, SENSOR OR PROBE)
- BATTERY POWERED (LOW POWER CONSUMPTION, 10+ YEAR LIFECYCLE)
- BEST-IN-CLASS FOR ULTRA REMOTE FIELD APPLICATIONS
- OVER-THE-AIR CONFIG & UPDATE
- EXPANDABLE, CUSTOMIZABLE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
SALES@TETRAEDRE.COM

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DESCRIPTION

VERY VERSATILE 4G TELETRANSMITTER WITH MANY WIRED INTERFACES AND ALSO WMBUS (RADIO) AND LORA RECEPTION FEATURE. IT CAN BE EQUIPPED WITH SEVERAL EXTENSIONS BOARDS TO READ VARIOUS SYSTEMS, METERS AND PROBES.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- RS-232
- SCR CODER
- IEC1107
- IMPULSE INPUT
- DIGITAL INPUT
- 4-20 mA INPUT AND OUTPUT
- DIGITAL OUTPUTS
- RELAY OUTPUTS
- DLMS
- 0-5 V INPUT
- 0-10 V INPUT

MEMORY

- 100'000 MEASUREMENTS
- REMOTE CONFIG UPDATE

TRANSMISSION

- TETRAEDRE MODCOM SYSTEM :
 - GSM 2G-3G
 - GSM 4G
 - ETHERNET
- LORALIGHT COMPATIBILITY
- VARIOUS SIM PLANS AVAILABLE

ENCLOSURE

- LENGTH 220 mm x WIDTH 120 mm x HEIGHT 91 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (3.7 VDC/ 8 Ah)
- OPTIONAL BATTERY PACKS (16 Ah, 32 Ah)
- OPTIONAL EXTERNAL POWER SUPPLY 5-35V
- AUTONOMY : 3'000 CONNECTIONS (UP TO 10 YEARS AT 1 TRANSMISSION PER DAY WITH 8 Ah)

EXTENSIONS

- MODULE-TPL (TPL-211)
- MODULE-ANALOG
- MODULE-24CS
- MODULE-CO2/RADON
- EXT-ANALOG (2 PORTS)
- EXT-485 / 422
- EXT-CORRGAZ
- EXT-4CS / 8CS
- EXT-3PULSE
- EXT-ATM
- EXT-CODERI / 2
- EXT-GPS
- EXT-ISCO
- EXT-EXTENSO2 / 4

VERSIONS

- TRMC-19-F (FULL FEATURES)
- TRMC-19-RF (RADIO ONLY)
- TRMC-19-LCG1 (CORRGAZ ONLY), WITHOUT EXT-CORRGAZ
- TRMC-19-F-EXTENSO2 (FOR EXTENSOMETER), WITHOUT EXT-EXTENSO2

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

TETRAEDRE SARL
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DATALOGGERS



MONITOR & RECORD YOUR DATA

Our range of dataloggers is varied and allows you to find a suitable solution for all applications and requirements. With the option of being powered by long-life batteries (up to 10 years), our dataloggers are designed for ultra remote field applications. Our devices are very versatile as they

can receive data from many types of meter, sensor or probe and record it in large quantities. Various communication interfaces can be integrated with our solutions in order to send the data punctually. Remote configuration and updates allow efficient project monitoring and follow-up.

DATALOGGERS

LIST OF PRODUCTS



TRMC-19
THE ULTIMATE
DATALOGGER



TRMC-5
THE DATALOGGER
FOR SCIENTIFIC USE



TRMC-6
THE WATER LEVEL
OR PULSE
DATALOGGER



TRMC-7
THE ESSENTIAL
DATALOGGER



TRMC-30
THE HIGHRISE
COLLECTIVE
DATALOGGER



TRMC-1
THE SINGLE-INPUT
BATTERY-POWERED
DATALOGGER

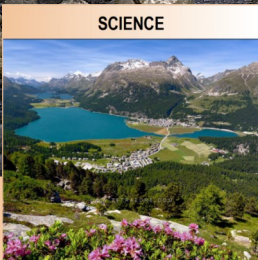


EXTENSIONS
EXTENSION BOARDS
AND MODULES FOR
TRMC



TETRAEDRE

TRMC-5 FAMILY



THE DATALOGGER FOR SCIENTIFIC USE BATTERY-POWERED WITH INTEGRATED 2G-3G-4G

- RUGGED HARDWARE TO CONNECT ANY SAMPLER, FLOWMETER, FLUORIMETER OR PROBE
- BATTERY POWERED (LOW POWER CONSUMPTION, 10+ YEAR LIFECYCLE)
- BEST-IN-CLASS FOR ULTRA REMOTE FIELD APPLICATIONS
- REMOTE TRANSMISSION OF SOLITAX TURBIDITY SENSORS
- OVER-THE-AIR CONFIG & UPDATE
- EXPANDABLE, CUSTOMIZABLE

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DESCRIPTION

THE TRMC-5 WAS SPECIALLY DESIGNED FOR SCIENTIFIC AND INDUSTRIAL APPLICATIONS. IT IS THE IDEAL TOOL FOR A CONTINUOUS OR TEMPORARY MONITORING OF SPRINGS, RIVERS OR FACILITIES. THE TRMC-5 POSSESSES THE CHARACTERISTICS WHICH WILL ALLOW YOU TO SET UP A SUCCESSFUL, AFFORDABLE AND OPEN NETWORK OF TELEMETRY.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- RS-232
- SCR CODER
- IMPULSE INPUT
- DIGITAL INPUT
- 4-20 mA INPUT AND OUTPUT
- DIGITAL OUTPUTS
- RELAY OUTPUTS
- 0-5 V INPUT
- 0-10 V INPUT

MEMORY

- 100'000 MEASUREMENTS
- REMOTE CONFIG UPDATE

TRANSMISSION

- TETRAEDRE MODCOM SYSTEM :
 - GSM 2G-3G
 - GSM 4G
 - ETHERNET
- LORALIGHT COMPATIBILITY
- VARIOUS SIM PLANS AVAILABLE

ENCLOSURE

- LENGTH 260 mm x WIDTH 160 mm x HEIGHT 91 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (12 VDC/ 7 Ah)
- OPTIONAL BATTERY PACKS (24 Ah)
- OPTIONAL EXTERNAL POWER SUPPLY 5-35V
- AUTONOMY : 3'000 CONNECTIONS (UP TO 10 YEARS AT 1 TRANSMISSION PER DAY WITH 7 Ah)

EXTENSIONS

- MODULE-TPL (TPL-211)
- MODULE-ANALOG
- MODULE-CO2/RADON
- EXT-ANALOG (2 PORTS)
- EXT-485 / 422
- EXT-4CS / 8CS
- EXT-GPS
- EXT-ISCO
- EXT-EXTENSO2 / 4

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY



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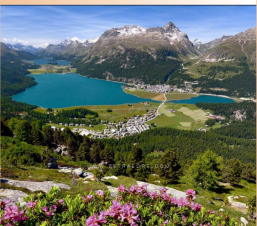


TETRAEDRE

TRMC-6 FAMILY



SCIENCE



ENERGY



INDUSTRY



THE WATER LEVEL OR PULSE DATALOGGER SINGLE PURPOSE, STRAIGHT TO THE POINT

- DEDICATED TO COLLECTING, LOGGING AND TRANSMITTING WATER LEVEL OR PULSE
- BATTERY POWERED (LOW POWER CONSUMPTION, 10+ YEAR LIFECYCLE)
- BEST-IN-CLASS FOR ULTRA REMOTE FIELD APPLICATIONS
- REMOTE OR OVER-THE-AIR CONFIG & UPDATE
- CUSTOMIZABLE

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DESCRIPTION

THE TRMC-6 IS THE RELIABLE, AFFORDABLE AND EASY-TO-INSTALL SOLUTION TO MONITOR A WATER LEVEL OR READ PULSE METERS. THANKS TO ITS SIZE AND ROBUSTNESS, THE TRMC-6-LEVEL CAN BE USED IN ANY KIND OF ENVIRONMENT.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- IMPULSE INPUT

MEMORY

- 100'000 MEASUREMENTS
- REMOTE CONFIG UPDATE

TRANSMISSION

- AVAILABLE :
 - GSM 2G-3G
 - GSM 4G
 - ETHERNET
- VARIOUS SIM PLANS AVAILABLE

ENCLOSURE

- LENGTH 122 mm x WIDTH 120 mm x HEIGHT 91 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (3.7 VDC/ 8 Ah)
- OPTIONAL BATTERY PACKS (16 Ah, 32 Ah)
- OPTIONAL EXTERNAL POWER SUPPLY 5-35V
- AUTONOMY : 3'000 CONNECTIONS (UP TO 10 YEARS AT 1 TRANSMISSION PER DAY WITH 8 Ah)

VERSIONS

- TRMC-6-LEVEL (RS-485 MODBUS RTU)
- TRMC-6-PULSE (PULSE ONLY)

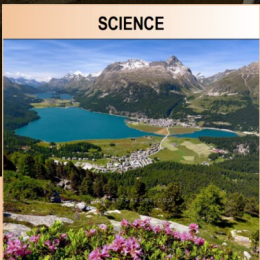
USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - PISCICULTURE
- ENERGY
 - WATER
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS



TETRAEDRE

TRMC-7 FAMILY



THE ESSENTIAL DATALOGGER PULSE/MODBUS, BATTERY-POWERED SMART METERING

- READS PULSE OR MODBUS UTILITIES METERS, LOGS AND TRANSMITS
- BATTERY POWERED (LOW POWER CONSUMPTION, 10+ YEAR LIFECYCLE)
- BEST-IN-CLASS FOR ULTRA REMOTE FIELD APPLICATIONS
- REMOTE OR OVER-THE-AIR CONFIG & UPDATE
- CUSTOMIZABLE

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DESCRIPTION

THE TRMC-7 IS A MULTI-PURPOSE DATA LOGGER, CAPABLE OF MEASURING VARIOUS TYPES OF SENSORS. THANKS TO HIS HIGH-ADAPTIBILITY, THE TRMC-7 CAN FOR EXAMPLE READS WATER-RELATED SENSORS SUCH AS FLOW OR WATER LEVEL PROBES.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- WIRED M-BUS MASTER
- IMPULSE INPUT
- DIGITAL INPUT

MEMORY

- 100'000 MEASUREMENTS
- REMOTE CONFIG UPDATE

TRANSMISSION

- TETRAEDRE MODCOM SYSTEM :
 - GSM 2G-3G
 - GSM 4G
 - ETHERNET
- VARIOUS SIM PLANS AVAILABLE

ENCLOSURE

- LENGTH 160 mm x WIDTH 160 mm x HEIGHT 91 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (3.7 VDC/ 8 Ah)
- OPTIONAL BATTERY PACKS (16 Ah, 32 Ah)
- OPTIONAL EXTERNAL POWER SUPPLY 5-35V
- AUTONOMY : 3'000 CONNECTIONS (UP TO 10 YEARS AT 1 TRANSMISSION PER DAY WITH 8 Ah)

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISCICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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TRMC-1 FAMILY



THE SINGLE-INPUT BATTERY-POWERED DATALOGGER COST-EFFECTIVE IOT DEVICE FOR SMART METERING

- READS VARIOUS UTILITIES METERS, LOGS AND TRANSMITS
- BATTERY POWERED (LOW POWER CONSUMPTION, 10+ YEAR LIFECYCLE)
- BEST-IN-CLASS FOR ULTRA REMOTE FIELD APPLICATIONS
- REMOTE OR OVER-THE-AIR CONFIG & UPDATE
- CUSTOMIZABLE

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DESCRIPTION

THE TRMC-1 IS A SIMPLE BATTERY OPERATED RECORDER-TRANSMITTER DESIGNED TO REMOTELY READ A UTILITY METER. THE TRMC-1 PROVIDES THE BEST IOT SOLUTION TO BUILD COST-EFFECTIVE AND RELIABLE NETWORKS OF SMART METERING.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- RS-232 OPTICAL IR HEAD
- RS-232
- SCR CODER
- IEC1107
- IMPULSE INPUT
- DIGITAL INPUT
- TEMPERATURE SENSOR
- M-BUS
- DLMS

MEMORY

- 100'000 MEASUREMENTS
- REMOTE CONFIG UPDATE

TRANSMISSION

- AVAILABLE :
 - GSM 2G-3G
 - GSM 4G
 - ETHERNET
- VARIOUS SIM PLANS AVAILABLE

ENCLOSURE

- LENGTH 197 mm x WIDTH 90 mm x HEIGHT 62 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (3.7 VDC/ 8 Ah)
- OPTIONAL BATTERY PACKS (16 Ah, 32 Ah)
- OPTIONAL EXTERNAL POWER SUPPLY 5-35V
- AUTONOMY : 3'000 CONNECTIONS (UP TO 10 YEARS AT 1 TRANSMISSION PER DAY WITH 8 Ah)

VERSIONS

- TRMC-1-SCR-CODER
- TRMC-1-MBUS
- TRMC-1-ELEC, SANS TÊTE OPTIQUE OPTIC-232
- TRMC-1-MODBUS
- TRMC-1-PULSE
- TRMC-1-TEMP

USE-CASES

- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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THE HIGHRISE COLLECTIVE DATALOGGER INDEXED & RELIABLE FOR STREAMLINED INVOICING

- READS & INDEXES MULTIPLE UTILITIES METERS TO STREAMLINE BILLING PROCESS
- BATTERY POWERED (LOW POWER CONSUMPTION, 10+ YEAR LIFECYCLE)
- ETHERNET CONNECTIVITY
- REMOTE OR OVER-THE-AIR CONFIG & UPDATE
- EXPANDABLE, CUSTOMIZABLE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TRMC-30 IS THE IDEAL TOOL TO MAKE THE REMOTE READING OF VARIOUS METERS. IT IS ALSO POSSIBLE TO REMOTELY VISUALIZE THE WHOLE ENERGY CONSUMPTION OF A BUILDING AND ESTABLISH THE INVOICING.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- RS-232
- SCR CODER
- IEC1107
- IMPULSE INPUT
- DIGITAL INPUT
- 4-20 mA INPUT AND OUTPUT
- DIGITAL OUTPUTS
- RELAY OUTPUTS
- DLMS
- 0-5 V INPUT
- 0-10 V INPUT

MEMORY

- 100'000 MEASUREMENTS
- REMOTE CONFIG UPDATE

TRANSMISSION

- ETHERNET

ENCLOSURE

- LENGTH 230 mm x WIDTH 190 mm x HEIGHT 100 mm (WITHOUT ANTENNAS)

POWER

- EXTERNAL POWER SUPPLY 230 VAC OR 5 VDC

EXTENSIONS

- MODULE-TPL (TPL-211)
- MODULE-ANALOG
- MODULE-24CS
- MODULE-CO2/RADON
- EXT-ANALOG (2 PORTS)
- EXT-485 / 422
- EXT-CORRGAZ
- EXT-4CS / 8CS
- EXT-3PULSE
- EXT-ATM
- EXT-CODERI / 2
- EXT-GPS
- EXT-ISCO
- EXT-EXTENSO2 / 4

USE-CASES

- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

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TETRAEDRE

EXTENSIONS FAMILY



EXTENSION BOARDS AND MODULES FOR TRMC CUSTOMIZE YOUR TRMC TO YOUR NEEDS

- EXPAND YOUR TRMC
- VARIOUS INTERFACES
- EASY, PLUG AND PLAY
- MAXIMUM FLEXIBILITY
- CUSTOMIZABLE

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DESCRIPTION

MANY EXTENSIONS CAN BE CONNECTED TO A TRMC IN ORDER TO PROVIDE ADDITIONAL FEATURES.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU MASTER
- RS-485 MODBUS RTU SLAVE
- TCP/IP MODBUS MASTER
- TCP/IP MODBUS SLAVE
- RS-422
- RS-232
- SCR CODER
- IEC1107
- 4-20 mA INPUT AND OUTPUT
- RELAY OUTPUTS
- 0-5 V INPUT
- 0-10 V INPUT
- M-BUS MASTER
- M-BUS SLAVE
- GPS
- ATMOSPHERIC PRESSURE
- RADON
- CO2

EXTENSIONS

- MODULE-TPL (TPL-211)
- MODULE-ANALOG
- MODULE-24CS
- MODULE-CO2/RADON
- EXT-ANALOG (2 PORTS)
- EXT-485 / 422
- EXT-CORRGAZ
- EXT-4CS / 8CS
- EXT-3PULSE
- EXT-ATM
- EXT-CODERI / 2
- EXT-GPS
- EXT-ISCO
- EXT-EXTENSO2 / 4

POWER

- POWERED BY THE TRMC

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISCICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS



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TRANSMISSION



SEND YOUR DATA HOW, WHERE AND WHEN YOU WANT

Thanks to our wide range of transmission solutions, each of your applications will find an ideal and adapted solution. Whether you want to transmit over the mobile network with our integrated communication module or need to transmit via other communication

protocols and technologies, we will provide a suitable solution for your application. Depending on the environment and technical constraints, the solution proposed will always be aimed at optimising resources and providing excellent transmission quality.

TRANSMISSION

LIST OF PRODUCTS



MODCOMS
CUSTOMIZE YOUR
TRMC



TRP-11
THE LORA/WMBUS
TRANSMITTER



TRR-868
THE CHAINABLE
TRANSMISSION
SOLUTION



TRX-11
THE LORA/WMBUS
RECEIVER



TRP-3
THE TEMPERATURE
AND HUMIDITY
TRANSMITTER

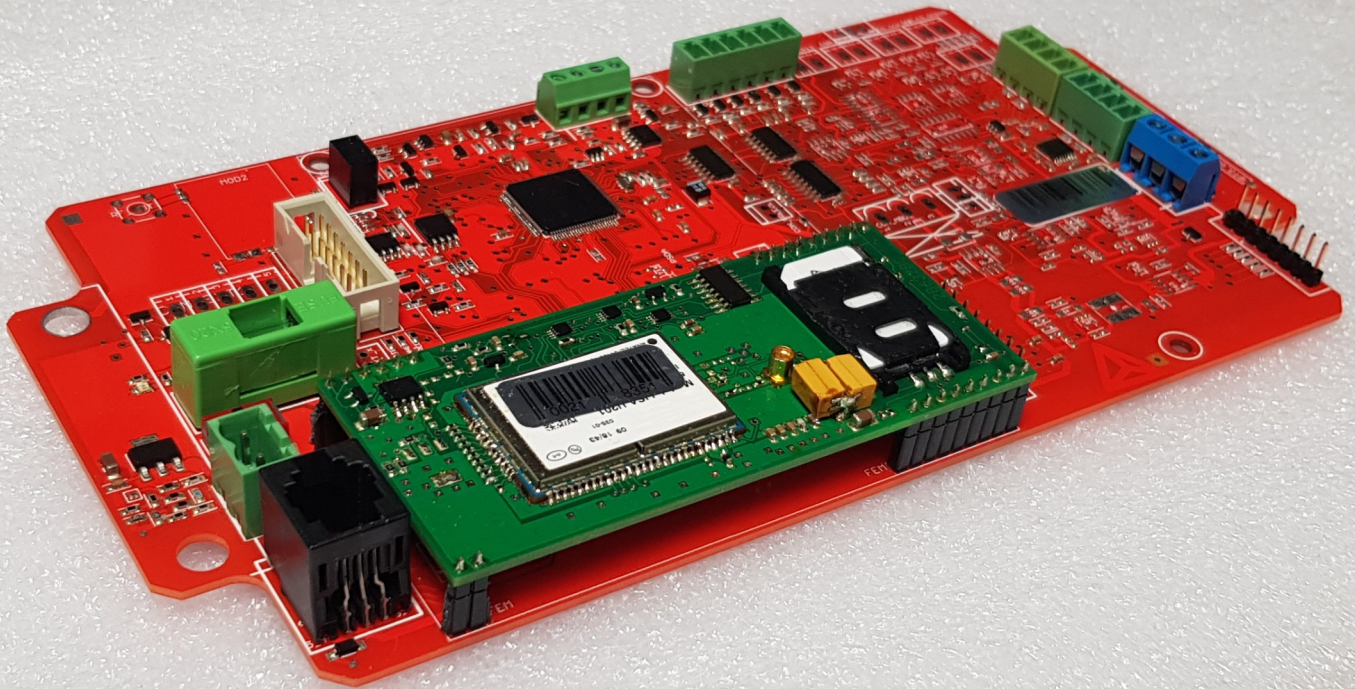


TCM-4
THE CONVERTER



TETRAEDRE

MODCOMS FAMILY



SCIENCE



ENERGY



INDUSTRY



CUSTOMIZE YOUR TRMC CHOOSE YOUR ONBOARD TRANSMISSION TECHNOLOGY

- VARIOUS TRANSMISSION TECHNOLOGIES AVAILABLE
- EASY, PLUG AND PLAY
- MAXIMUM FLEXIBILITY

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DESCRIPTION

VERY VERSATILE 4G TELETRANSMITTER WITH MANY WIRED INTERFACES AND ALSO WMBUS (RADIO) AND LORA RECEPTION FEATURE. IT CAN BE EQUIPPED WITH SEVERAL EXTENSIONS BOARDS TO READ VARIOUS SYSTEMS, METERS AND PROBES.

TRANSMISSION

- TETRAEDRE MODCOM SYSTEM :
 - GSM 2G-3G
 - GSM 4G
 - ETHERNET
- VARIOUS SIM PLANS AVAILABLE

VERSIONS

- MODCOM-2G-3G
- MODCOM-2G-3G-4G
- MODCOM-4G
- MODCOM-ETHERNET

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

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SCIENCE



ENERGY



INDUSTRY



THE LORA/WMBUS TRANSMITTER IDEAL IOT DEVICE FOR SMART METERING

- BATTERY OR MAINS POWERED
- THE BATTERY CAN BE REPLACED BY THE CUSTOMER
- LOW POWER CONSUMPTION
- USED FOR BILLING OR ENERGY MONITORING



DESCRIPTION

THE TRP-11-LORA IS A RADIO MODULE CAPABLE OF READING THE DATA OF METERS, THANKS TO ITS WIRED INTERFACE M-BUS, IT SENDS THEN A PART OF THE MESSAGE READ ACCORDING TO THE LORAWAN PROTOCOL.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- RS-232
- SCR CODER
- IEC1107
- IMPULSE INPUT
- DIGITAL INPUT
- 4-20 mA INPUT AND OUTPUT
- DIGITAL OUTPUTS
- DLMS
- 0-5 V INPUT
- 0-10 V INPUT

TRANSMISSION

- LORA
- LORALIGHT COMPATIBILITY
- WIRELESS M-BUS 868 MHz (WMBUS)

ENCLOSURE

- LENGTH 153 mm x WIDTH 90 mm x HEIGHT 60 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (3.7 VDC/ 19 Ah)
- OPTIONAL EXTERNAL POWER SUPPLY 5-35V
- AUTONOMY : UP TO 25 YEARS WITH 1 TRANSMISSION PER DAY

VERSIONS

- TRP-11-MBUS THE LORA/WMBUS TRANSMITTER, WITHOUT EPS
- TRP-11-PULSE
- TRP-11-FULL
- TRP-11-232, WITHOUT EPS
- TRP-11-MODBUS
- TRP-11-CS
- TRP-11-SCR CODER
- TRP-11-420MA
- TRP-11-010V
- TRP-11-TEMPPROBES1
- TRP-11-TEMPPROBES2
- TRP-11-SOILMOISTURE

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISCICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

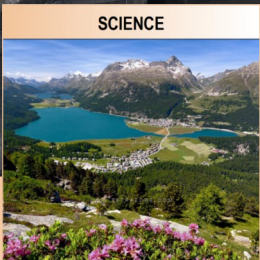
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TETRAEDRE

TRR-868 FAMILY



THE CHAINABLE TRANSMISSION SOLUTION TRANSMISSION REPEATER MODULES

- TRMC REPEATER MODULES
- DAISY-CHAIN SEVERAL TRANSMISSION SOLUTIONS (GSM, LORA, WIRELESS MBUS)
- COVER VIRTUALLY ANY SPOT WITH WIRELESS BRIDGES
- TO BE USED IN COMBINATION WITH TRMC-19 OR TRMC-5

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DESCRIPTION

THE TRR-868 IS THE IDEAL WIRELESSE-MBUS (WMBUS) REPEATER. WHEN YOUR METER IS LOCATED IN THE SECOND OR THIRD FLOOR, THE TRR-868 LORA REPEATER ALLOW YOU TO INCREASE THE RADIO RANGE AND COLLECT IT WITHOUT EXPENSIVE INSTALLATION OF EXTENSION CABLES. INTERNAL AND REPLACEABLE BATTERY POWER.

TRANSMISSION

- LORA
- LORALIGHT COMPATIBILITY
- WIRELESS M-BUS 868 MHz (WMBUS)

ENCLOSURE

- LENGTH 153 mm x WIDTH 90 mm x HEIGHT 60 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (3.7 VDC/ 19 Ah)
- OPTIONAL EXTERNAL POWER SUPPLY 5-35V

VERSIONS

- TRR-868-WMBUS THE WMBUS-TO-WMBUS REPEATER
- TRR-868-WMBUS4 (4 DEVICES)
- TRR-868-LORALIGHT-TO-LORA REPEATER (1 DEVICE)

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

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TETRAEDRE

TRX-11 FAMILY



THE LORA/WMBUS RECEIVER IDEAL BRIDGE FOR DIGITAL AND ANALOGIC SIGNALS

- RECEIVE WMBUS OR LORALIGHT MESSAGE
- GENERATE DIGITAL OR ANALOGIC SIGNALS
- COMPACT
- LIGHTWEIGHT
- COST EFFECTIVE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TRX-11 IS THE PERFECT BRIDGE FOR DIGITAL AND ANALOGIC SIGNALS. ONE MODULE IS CONNECTED TO A METER OR A SENSOR AND SENDS THE VALUE PER RADIO WMBUS OR LORALIGHT TO A RECEIVER WHICH GENERATE THE SAME DIGITAL OR ANALOGIC SIGNAL.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU
- MBUS SLAVE
- IMPULSE OUTPUT
- 4-20 mA OUTPUT
- DIGITAL OUTPUTS
- RELAY OUTPUTS

TRANSMISSION

- LORA
- LORALIGHT COMPATIBILITY
- WIRELESS M-BUS 868 MHz (WMBUS)

ENCLOSURE

- LENGTH 153 mm x WIDTH 90 mm x HEIGHT 60 mm (WITHOUT ANTENNAS)

POWER

- EXTERNAL POWER SUPPLY 5-35V

VERSIONS

- TRX-11-MBUS
- TRX-11-PULSE
- TRX-11-MODBUS
- TRX-11-420MA
- TRX-11-010V

USE-CASES

- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

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SCIENCE



ENERGY



INDUSTRY



THE TEMPERATURE AND HUMIDITY TRANSMITTER IDEAL INDOOR AIR MONITORING

- BATTERY POWERED
- THE BATTERY CAN BE REPLACED BY THE CUSTOMER
- LOW POWER CONSUMPTION
- TEMPERATURE AND HUMIDITY MONITORING
- HIGH ACCURACY
- WMBUS OR LORA TRANSMISSION

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TRP-3 IS THE IDEAL TOOL TO REMOTELY MONITOR THE TEMPERATURE AND HUMIDITY OF A PRODUCTION SITE OR A STORAGE ROOM. COMPACT AND BATTERY POWERED, IT ALLOWS YOU TO BE INSTALLED NEARLY ANYWHERE. THE DATA ARE SENT THROUGH WIRELESS M-BUS (WMBUS) OR LORA AND CAN BE COLLECTED BY A TRMC OR ANY LORAWAN GATEWAY.

TRANSMISSION

- LORA
- LORALIGHT COMPATIBILITY
- WIRELESS M-BUS 868 MHz (WMBUS)

ENCLOSURE

- LENGTH 67 mm x WIDTH 125 mm x HEIGHT 31 mm (WITHOUT ANTENNAS)

POWER

- BATTERY POWERED (3.7 VDC/ 2.4 Ah)
- AUTONOMY : 5 YEARS

VERSIONS

- TRP-3-TEMPHUM
- TRP-3-OXYGEN
- TRP-3-ATHMOS

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

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TETRAEDRE

TCM-4 FAMILY



THE CONVERTER CONVERT SEVERAL PROTOCOLS TO OTHER PROTOCOLS

- VARIOUS PROTOCOLS AND INTERFACES AVAILABLE
- COMPACT
- COST EFFECTIVE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

TCM-4 MODULES CAN CONVERT A DIGITAL SIGNAL TO ANOTHER TYPE OF SIGNAL. FOR EXAMPLE IT CAN READ A MODBUS METER AND CONVERT THE VALUE TO PULSES. VARIOUS PROTOCOLS AND SIGNALS AVAILABLE.

INPUTS - OUTPUTS

- RS-485 MODBUS RTU INPUT
- RS-232 INPUT
- P1 INPUT
- 4-20 MA OUTPUT
- PULSE OUTPUT
- MBUS SLAVE

ENCLOSURE

- LENGTH 106 mm x WIDTH 90 mm x HEIGHT 32 mm (WITHOUT ANTENNAS)

POWER

- EXTERNAL POWER SUPPLY +24V

VERSIONS

- TCM-4-MODBUS-TO-PULSE CONVERTER
- TCM-4-MODBUS-TO-420 CONVERTER
- TCM-4-232-TO-MBUS CONVERTER
- TCM-4-P1-TO-MBUS CONVERTER

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISCICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS
 - RADIATIONS

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SENSORS



MEASURE AND DETECT IN ANY CONDITIONS

The probes and sensors we offer in our solutions are all accurate, reliable and of high quality. Depending on your needs, adopt solutions that are low-power, certified, resistant or even capable

of simplifying your billing system. high precision scientific tools such as fluorimeters are also available in our offer to be used in combination with dataloggers.

SENSORS

LIST OF PRODUCTS



**WATER
LEVEL AND
TEMPERATURE**



**MULTI-PARAMETERS
WATER LEVEL, TEMPERATURE
AND CONDUCTIVITY, PH, O2,
REDOX, TDGP**



**WATER
TURBIDITY**



**AIR AND WATER
TEMPERATURE**



H₂S



**CH₄
METHANE NATURAL
GAS**



**GAS
TEMPERATURE**



**WATER AND
GAS PRESSURE**



**EVC
THE GAS CORRECTOR**



**RAIN
THE PLUVIOMETER**

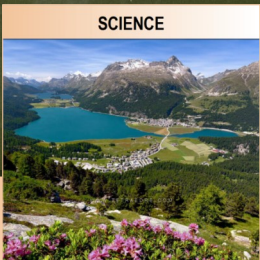
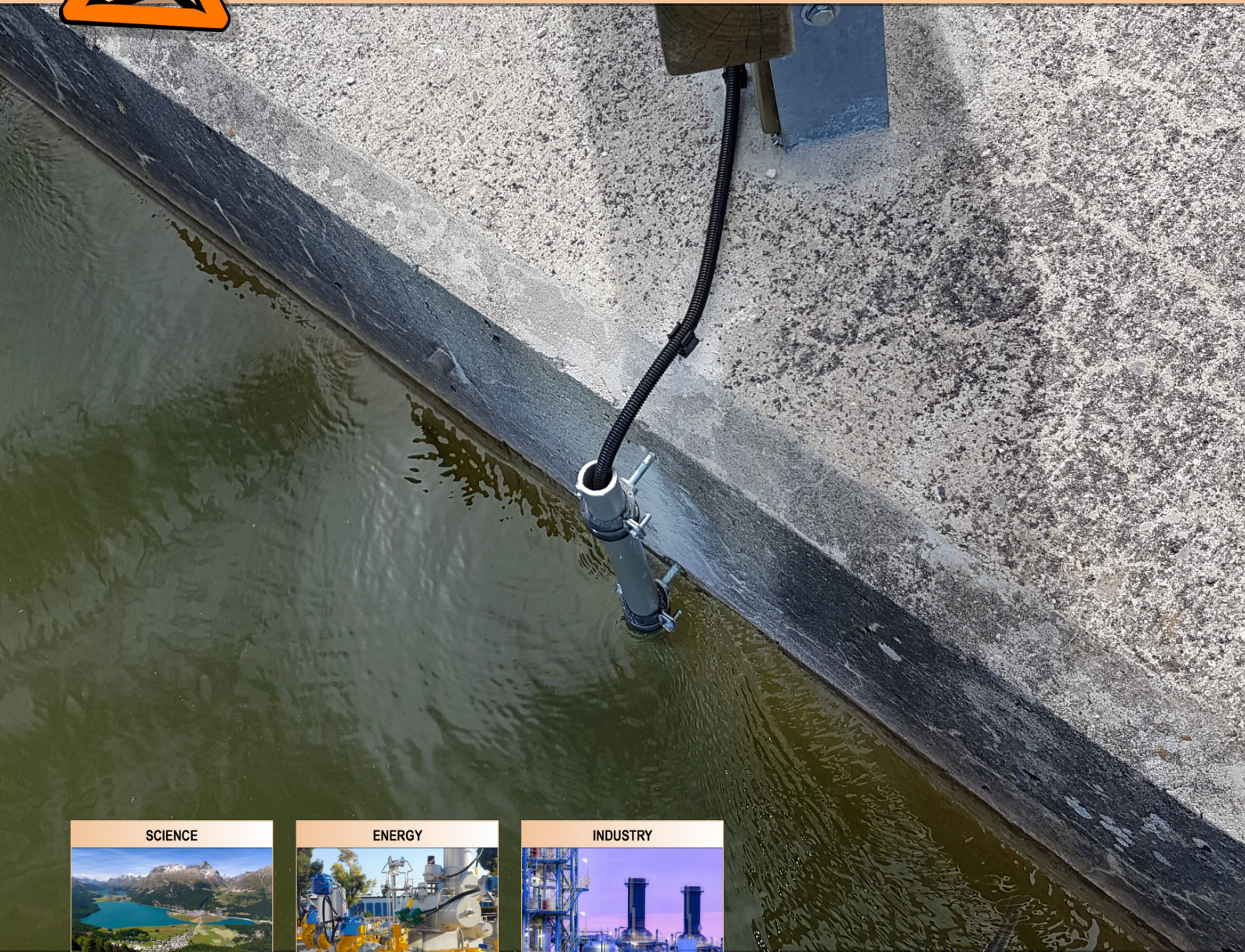


**FLUOROMETER
FOR RIVERS**



**FLUOROMETER
FOR BORE HOLES**

AND MANY MORE...



THE TEMPERATURE SENSOR MEASURING TEMPERATURE IN ANY SETTING

- DIFFERENT TEMPERATURE SENSORS AND PROBES
- AIR AND LIQUIDS
- 2G/3G/4G TRANSMISSION VIA TRMC



GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TTES-1 IS A DIGITAL WATER OR AIR TEMPERATURE SENSOR WITH HIGH PRECISION. ITS STAINLESS STEEL HOUSING IS SUITABLE FOR LONG TERM APPLICATIONS.

INTERFACE

- DIGITAL

DIMENSIONS

- Ø71 mm x LENGTH 30 mm

TECHNICAL SPECIFICATIONS

- FULL RANGE: -55°C to +125°C
- RANGE WITH ACCURACY OF ± 0.5 °C: -10°C TO +85°C

POWER

- SUPPLIED BY THE TRMC

VERSIONS

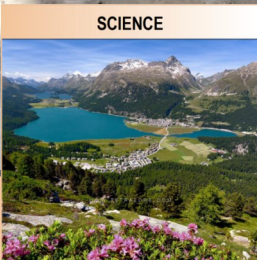
- TTES-1-1 (1M CABLE)
- TTES-1-20 (20M CABLE)

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
 - GEOTECHNICS
 - PISICULTURE
- ENERGY
 - GAS
 - WATER
 - ELECTRICITY
 - SOLAR
 - WASTE
 - ENERGY EFFICIENCY
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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THE H2S SENSOR MEASURING H2S IN ANY SETTING

- COMPACT
- 2G/3G/4G TRANSMISSION VIA TRMC
- ATEX CERTIFIED
- BATTERY POWERED

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
SALES@TETRAEDRE.COM



DESCRIPTION

THE TH2SS-1 IS THE PERFECT ATEX CERTIFIED H₂S SENSOR TO REMOTELY MONITOR WASTE WATER SEWER. THE MEASURING HEAD IS EASILY INTERCHANGEABLE ON-SITE AND EMBARKS ITS CALIBRATION.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø71 mm x LENGTH 215 mm

TECHNICAL SPECIFICATIONS

- MEASURING RANGE: 0-2000 ppm
- MAXIMUM OVEREXPOSURE: 10'000 ppm
- MEASUREMENT ACCURACY: ± 0.15% EM
- RESOLUTION: 1 ppm
- TEMPERATURE RANGE: -30°C TO +50°C
- RELATIVE HUMIDITY RANGE: 15 TO 90% NON-CONDENSING
- IP 66
- ATEX CERTIFIED

POWER

- SUPPLIED BY THE TRMC

USE-CASES

- SCIENCE
 - GEOLOGY
 - HYDROLOGY
 - HYDROGEOLOGY
- ENERGY
 - WATER
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS



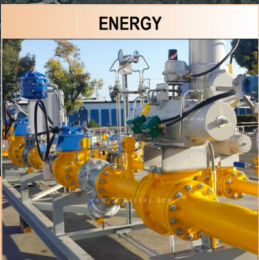
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TCH4S-1



THE CH₄ SENSOR MEASURING CH₄ IN ANY SETTING

- WALL MOUNT ROBUST FLAMEPROOF METAL ENCLOSURE
- LOW POWER CONSUMPTION
- ATEX CERTIFIED

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DESCRIPTION

THE TCH4S-1 IS AN ATEX CERTIFIED FLAMEPROOF METHANE DETECTOR. THE SENSOR IS FULLY CALIBRATED WITH EXCELLENT REPEATABILITY, STABILITY AND LONG LIFETIME.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- LENGTH 125 mm x WIDTH 133 mm

TECHNICAL SPECIFICATIONS

- DETECTION RANGE: 0-100% OF LEL
- RESOLUTION: 0.1% OF LEL
- LIFETIME OF THE MEASURING CELL: > 5 YEARS
- RECOMMENDED CALIBRATION INTERVAL: 12 MONTHS
- TEMPERATURE RANGE: -30°C TO +70°C
- OPERATING ENVIRONMENT: RELATIVE HUMIDITY ≤ 95%, NON-CONDENSING
- IP 66
- RS-485 MODBUS INTERFACE, POWER SUPPLY VIA TRMC
- POWER SUPPLY 12 VDC
- ATEX CERTIFIED ZONE 2 AND 22

POWER

- SUPPLIED BY THE TRMC

USE-CASES

- ENERGY
 - GAS
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS



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ENERGY



INDUSTRY



THE GAS TEMPERATURE SENSOR MEASURING GAS TEMPERATURE IN ANY SETTING

- DIGITAL SENSOR
- EXTREMELY LOW POWER CONSUMPTION
- HIGH ACCURACY
- COMPACT
- RUGGED CASE



GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TGTS-1 IS A DIGITAL TEMPERATURE SENSOR WITH HIGH PRECISION AND ULTRA LOW POWER CONSUMPTION. ITS STAINLESS STEEL HOUSING IS SUITABLE FOR LONG TERM APPLICATIONS.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø5.7 mm x LENGTH 120 mm

TECHNICAL SPECIFICATIONS

- RANGE : -25°C - +60°C
- ACCURACY : ±0.3°C

POWER

- SUPPLIED BY THE TRMC

USE-CASES

- ENERGY
 - GAS
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS



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THE GAS PRESSURE SENSOR MEASURING GAS PRESSURE IN ANY SETTING

- DIGITAL SENSOR
- HIGH ACCURACY
- COMPACT
- EXTREMELY LOW POWER CONSUMPTION
- RUGGED STAINLESS STEEL CASE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TGPS-1 IS A DIGITAL PRESSURE SENSOR WITH HIGH PRECISION AND ULTRA LOW POWER CONSUMPTION. ITS STAINLESS STEEL HOUSING IS SUITABLE FOR LONG TERM APPLICATIONS.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø35 mm x LENGTH 95 mm

TECHNICAL SPECIFICATIONS

- STANDARD RANGES:
 - 0-200 mbar GAUGE
 - 0-6 bar GAUGE
 - 0-25 bar GAUGE
- OTHER RANGES :
 - UP TO 70 bar AVAILABLE ON REQUEST
- 5 m SHIELDED CABLE
- FITTING FOR 6 mm STAINLESS STEEL TUBE (ERMETO 6)
- DELIVERED WITH A STAINLESS STEEL TUBE OF 6 mm DIAM
- G1/2" ADAPTER AVAILABLE ON REQUEST
- EMBEDDED VENT
- ATEX CERTIFIED

POWER

- SUPPLIED BY THE TRMC

VERSIONS

- TGPS-1-ATEX-02-G-5 THE GAS PRESSURE SENSOR (0.2 bar, 5 m CABLE)
- TGPS-1-ATEX-6-G-5 (6 bar, 5 m CABLE)
- TGPS-1-ATEX-25-G-5 (25 bar, 5 m CABLE)
- TGPS-1-ATEX-300-A-5 (300 bar, 5 m CABLE)

USE-CASES

- ENERGY
 - GAS
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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TETRAEDRE

TEVC-1 FAMILY



THE ELECTRONIC VOLUME CONVERTER HIGH END BATTERY-POWERED EVC FOR SMART METERING

- HIGH ACCURACY AND STABILITY OF MEASUREMENT
- 2G/3G/4G TRANSMISSION VIA TRMC
- IDEAL FOR BILLING
- MID AND ATEX APPROVED
- LONG BATTERY LIFE
- COST EFFECTIVE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TEVC-1 IS THE HIGH END EVC FOR BILLING PURPOSES. RELIABLE TRANSMISSION THROUGH A 4G TRMC. SEVERAL METERS COMMUNICATION PROTOCOLS AVAILABLE.

INTERFACE

- DIGITAL

DIMENSIONS

- LENGTH 263 mm x WIDTH 201 mm x HEIGHT 111 mm

TECHNICAL SPECIFICATIONS

- VOLUME MEASUREMENT FOR ONE METER
- PRESSURE RANGE 0.8-10 bar ABSOLUT
- PULSE OR SCR CODER OR NAMUR INPUT
- ATEX CERTIFIED ZONE 0, ZONE 1, ZONE 2
- MID CERTIFIED
- HIGH ACCURACY
- 17 Ah BATTERY (10 YEARS AUTONOMY DEPENDING ON CONFIGURATION)
- ALARMS OUTPUTS
- IP66 RATED FOR OUTDOOR ENVIRONMENT
- EXTERNAL PRESSURE SENSOR WITH 2.5 m
- TEMPERATURE RANGE : -25°C - +70°C
- TEMPERATURE SENSOR LENGTH 50 mm
- TEMPERATURE SENSOR CABLE LENGTH 2.5 m
- PRESSURE UNIT: bar
- BASE PRESSURE: 1.01325 bar
- TEMPERATURE UNIT: °C
- BASE TEMPERATURE: 0°C
- SIZE OF TIME ARCHIVE IN INTERNAL MEMORY: 194 MONTHS
- INPUT FOR EXTERNAL POWER SUPPLY

POWER

- INTERNAL BATTERY UP TO 10 YEARS

VERSIONS

- TEVC-1-PULSE
- TEVC-1-SCR
- TEVC-1-NAMUR

USE-CASES

- ENERGY
 - GAS
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS



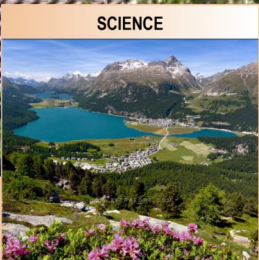
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TETRAEDRE

TPM-1 FAMILY



THE PLUVIOMETER MEASURING RAIN IN ANY SETTING

- HIGH LEVEL OF ACCURACY
- WEATHER-RESISTANT MATERIALS
- HIGH DURABILITY DEVICE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TPM-1 COLLECTOR IS DESIGNED FOR YEARS OF ACCURATE, TROUBLE-FREE SERVICE. THE SHAPE IS AERODYNAMICALLY DESIGNED TO MINIMIZE RAINFALL CATCH REDUCTION CAUSED BY HIGH WINDS. THE BODY AND BASE OF THE COLLECTOR ARE CONSTRUCTED OF TOUGH, UV RESISTANT PLASTIC; THE TIPPING BUCKET PIVOTS ON BEARINGS THAT MINIMIZE FRICTION AND WEAR.

INTERFACE

- IMPULSE OUTPUT

DIMENSIONS

- LENGTH 165 mm x WIDTH 240 mm

TECHNICAL SPECIFICATIONS

- 0.2 mm PER PULSE

POWER

- PASSIVE

VERSIONS

- TPM-1
- TPM-1-H HEATED VERSION

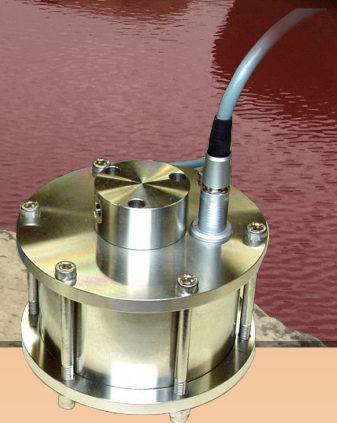
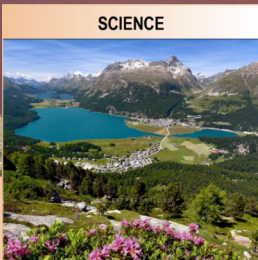
USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY



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THE ULTIMATE FLUORIMETER IDEAL RIVER TRACING COMPANION

- 4 OPTICS
- PLUG AND PLAY
- VERY HIGH PRECISION AND RELIABLE
- 2G/3G/4G TRANSMISSION VIA TRMC
- ONLINE VISUALIZATION OF MV AND PPB
- CALIBRATION SERVICE AVAILABLE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE FL-30 IS THE PERFECT COMPANION FOR SURFACE-WATER TRACINGS. ITS VERY HIGH SENSITIVITY ALLOW THE DETECTION OF ULTRA-LOW CONCENTRATIONS OF TRACERS. ITS PLUG AND PLAY FUNCTIONALITY MAKES IT EASY TO USE. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION IN PPB.

INTERFACE

- DIGITAL

DIMENSIONS

- Ø160 mm x LENGTH 170 mm

TECHNICAL SPECIFICATIONS

- 4 OPTICS FLUOROMETER FOR SURFACE WATER
- TURBIDITY SENSOR
- TEMPERATURE SENSOR
- STAINLESS STEEL HOUSING
- 15 m CABLE (LONGER CABLE ON REQUEST)

POWER

- SUPPLIED BY THE TRMC

DYE TRACER LIST

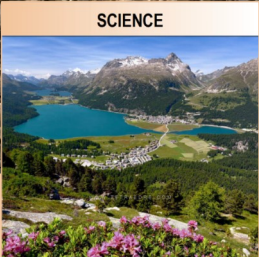
- SODIUM NAPHTIONATE
- TINOPAL (CBS-X OR -CL)
- AMINO G ACID
- PHOTINE
- DUASYNE YELLOW T
- PYRANINE
- URANINE (NA FLUORESCEIN)
- EOSINE
- AMIDORHODAMINE G
- RHODAMINE WT
- SULFORHODAMINE B

USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY

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THE ULTIMATE FLUORIMETER IDEAL RIVER TRACING COMPANION

- 4 OPTICS
- PLUG AND PLAY
- VERY HIGH PRECISION AND RELIABLE
- 2G/3G/4G TRANSMISSION VIA TRMC
- ONLINE VISUALIZATION OF MV AND PPB
- CALIBRATION SERVICE AVAILABLE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE FL-24 IS THE PERFECT COMPANION FOR GROUNDWATER TRACINGS THROUGH BOREHOLE. ITS VERY HIGH SENSITIVITY ALLOW THE DETECTION OF ULTRA-LOW CONCENTRATIONS OF TRACERS. ITS PLUG AND PLAY FUNCTIONALITY MAKES IT EASY TO USE. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION IN PPB.

INTERFACE

- DIGITAL

DIMENSIONS

- Ø48 mm x LENGTH 270 mm

TECHNICAL SPECIFICATIONS

- 4 OPTICS FLUOROMETER FOR SURFACE WATER
- TURBIDITY SENSOR
- TEMPERATURE SENSOR
- STAINLESS STEEL HOUSING
- 30 m CABLE (LONGER CABLE ON REQUEST)

POWER

- SUPPLIED BY THE TRMC

DYE TRACER LIST

- SODIUM NAPHTIONATE
- TINOPAL (CBS-X OR -CL)
- AMINO G ACID
- PHOTINE
- DUASYNE YELLOW T
- PYRANINE
- URANINE (NA FLUORESCEIN)
- EOSINE
- AMIDORHODAMINE G
- RHODAMINE WT
- SULFORHODAMINE B

USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY

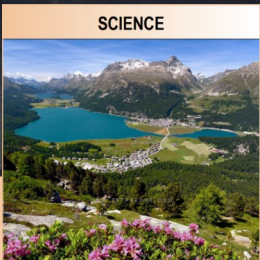
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TETRAEDRE

TLS-1-LT FAMILY



THE LEVEL AND TEMPERATURE SENSOR PLUG AND PLAY WATER MONITORING

- TEMPERATURE COMPENSATED
- ROBUST STAINLESS STEEL HOUSING
- LEVEL RANGES FROM 0-3 m TO 0-300 m
- EXCELLENT LONG-TERM STABILITY

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TLS-1 IS A VERY HIGH QUALITY DIGITAL SENSOR ALLOWING ACCURATE WATER LEVEL AND TEMPERATURE MEASUREMENTS. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø22 mm x LENGTH 106 mm

TECHNICAL SPECIFICATIONS

- STANDARD RANGES:
 - 0-0.3 bar GAUGE
 - 0-1 bar GAUGE
 - 0-3 bar GAUGE
 - 0-10 bar GAUGE
 - 0-30 bar GAUGE

POWER

- SUPPLIED BY THE TRMC

VERSIONS

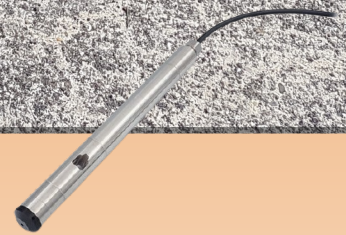
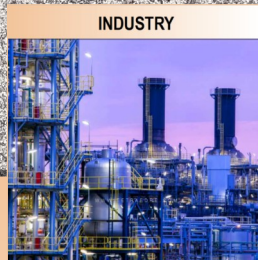
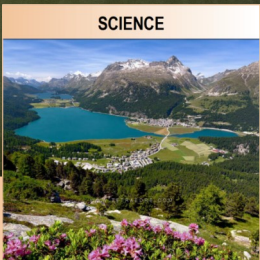
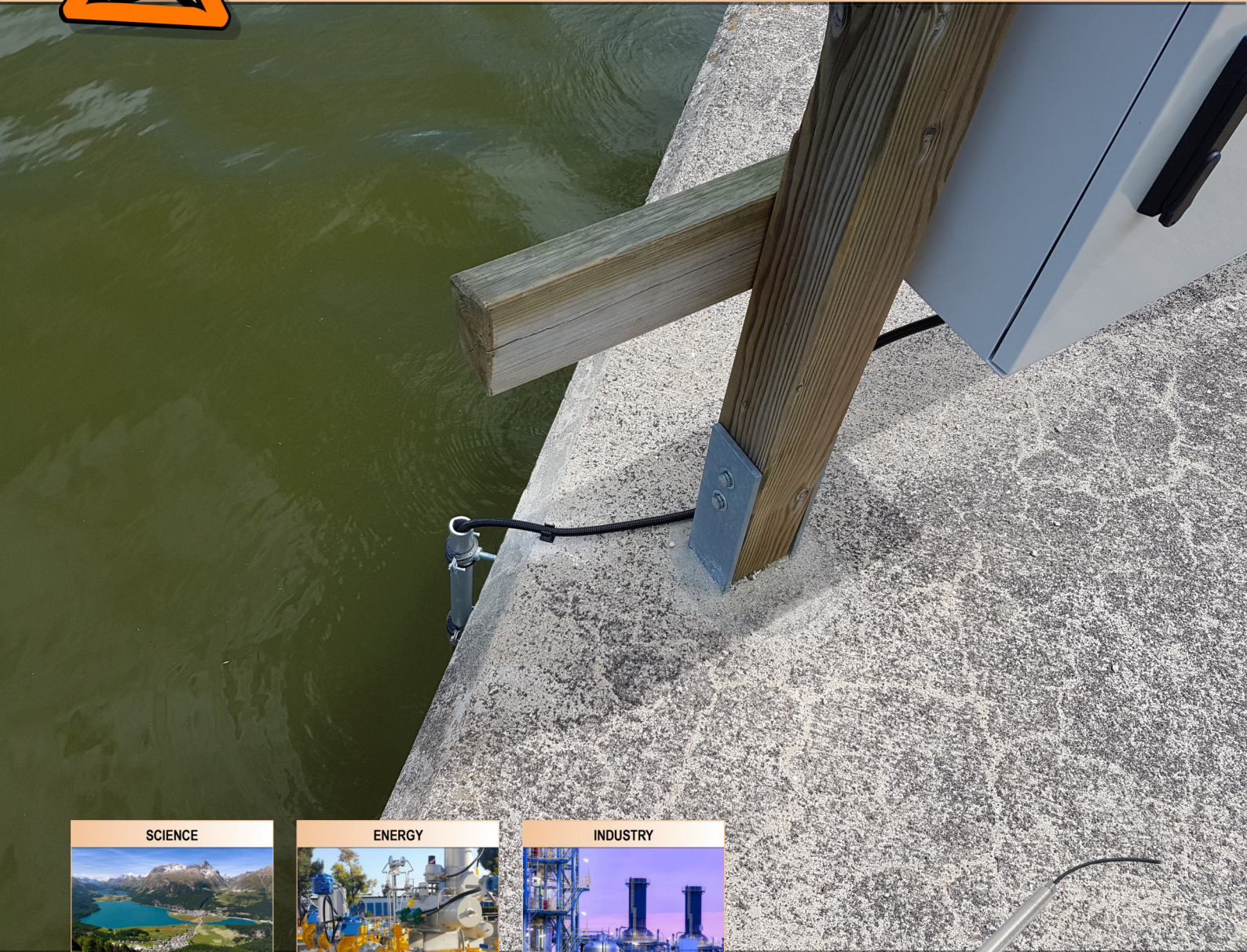
- TLS-1-LT-05-10 (0.5 bar, 10 m CABLE)
- TLS-1-LT-01-5 (0.1 bar, 5 m CABLE)
- TLS-1-LT-8-150 (8 bar, 15 m CABLE)
- TLS-1-LT-ATEX-03-10 (0.3 bar, 10 m CABLE)

USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - PISICULTURE
- ENERGY
 - WATER
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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THE LEVEL, TEMPERATURE AND CONDUCTIVITY SENSOR PLUG AND PLAY WATER MONITORING

- 3 IN 1 SENSOR : CONDUCTIVITY, LEVEL AND TEMPERATURE
- TEMPERATURE COMPENSATED
- ROBUST STAINLESS STEEL HOUSING
- LEVEL RANGES FOR LEVELS FROM 0-3 m TO 0-300 m
- EXCELLENT LONG-TERM STABILITY



DESCRIPTION

THE TLS-1-LTC IS A VERY HIGH QUALITY 3 IN 1 DIGITAL SENSOR ALLOWING ACCURATE WATER LEVEL, TEMPERATURE AND CONDUCTIVITY MEASUREMENTS. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø22 mm x LENGTH 240 mm

TECHNICAL SPECIFICATIONS

- CONDUCTIVITY RANGE CONFIGURABLE BY THE USER :
 - 0 µS/cm – 200 mS/cm
- LEVEL STANDARD RANGES:
 - 0-0.3 bar GAUGE
 - 0-1 bar GAUGE
 - 0-3 bar GAUGE
 - 0-10 bar GAUGE
 - UP TO 0-21 bar GAUGE ON REQUEST

POWER

- SUPPLIED BY THE TRMC

VERSIONS

- TLS-1-LTC-03-15 (0.3 bar, 15 m CABLE)
- TLS-1-LTC-1-15 (1 bar, 15 m CABLE)
- TLS-1-LTC-10-65 (10 bar, 65 m CABLE)

USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - PISCULTURE
- ENERGY
 - WATER
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

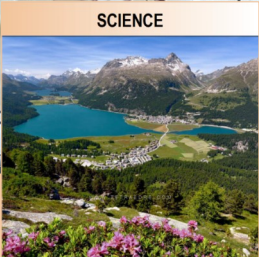
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TETRAEDRE

TTUS-1 FAMILY



THE TURBIDITY SENSOR PLUG AND PLAY WATER MONITORING

- TURBIDITY IN NTU
- FULLY CALIBRATED
- CLEANING SYSTEM BY WIPER
- MEASUREMENT OF SUSPENDED SOLIDS AVAILABLE ON REQUEST

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TTUS-1 MEASURES PRECISELY IN VERY CLEAR TO VERY LOADED ENVIRONMENTS. THEY CAN THUS BE USED IN THE TREATMENT OF DRINKING WATER AND WASTEWATER TREATMENT, SLUDGE TREATMENT, AS WELL AS IN THE SURFACE WATER MONITORING. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- DIGITAL

DIMENSIONS

- Ø60 mm x LENGTH 200 mm

TECHNICAL SPECIFICATIONS

- WITH WIPER
- RANGE 0.001 - 4000 NTU

POWER

- SUPPLIED BY THE TRMC

VERSIONS

- TTUS-1-PVC-T THE TURBIDITY SENSOR
- TTUS-1-PVC-TS SUSPENDED MATERIALS (TS LINE)
- TTUS-1-INOX-TS SUSPENDED MATERIALS (TS LINE)

USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - PISCICULTURE
- ENERGY
 - WATER
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

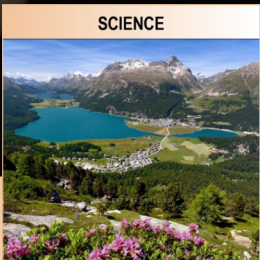
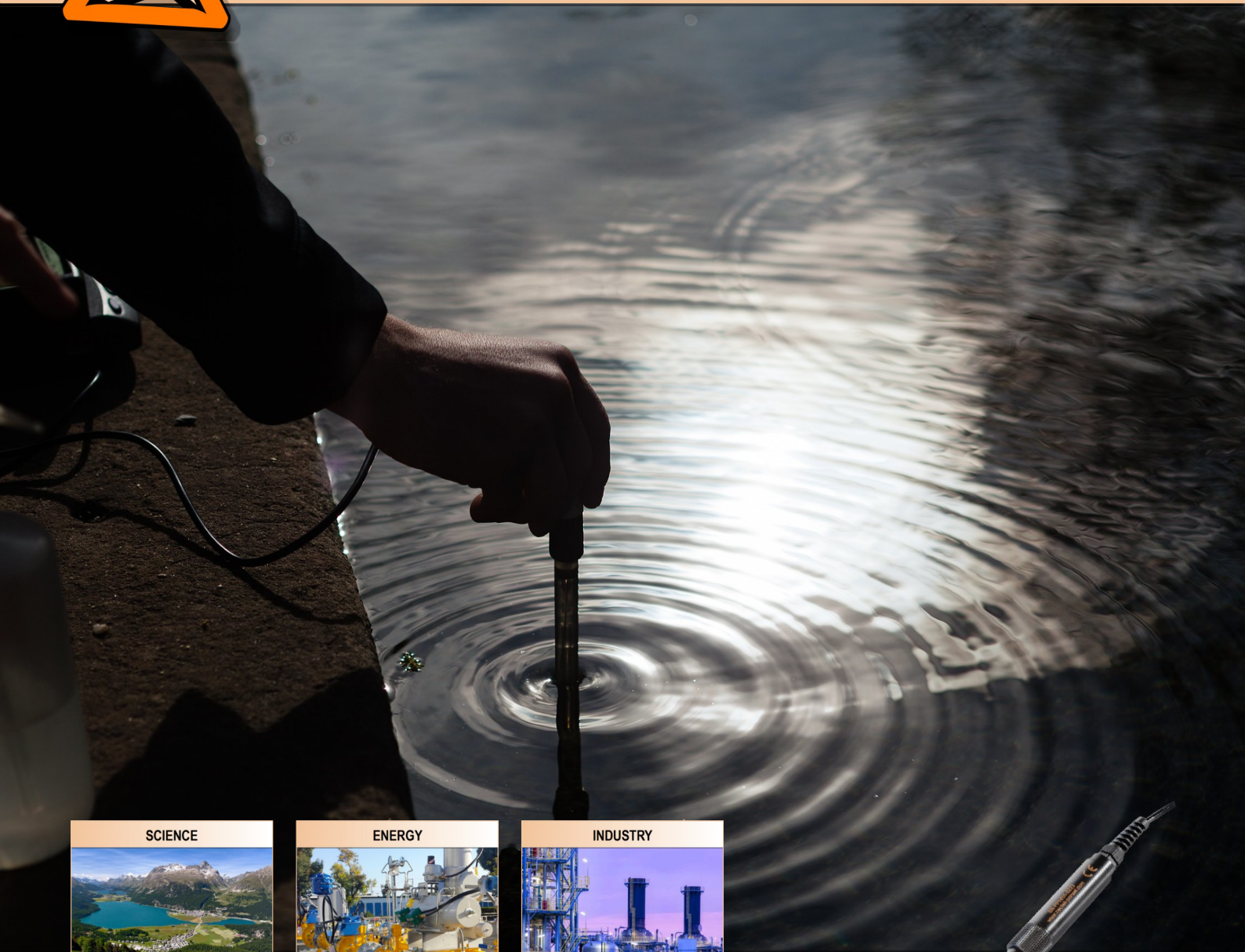
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TETRAEDRE

TPHS-1



THE PH SENSOR PLUG AND PLAY WATER MONITORING

- DESIGNED TO PERFORM UNDER HARD CONDITIONS
- LONG LIFE CARTRIDGE
- QUICK TIME RESPONSE
- LOW POWER CONSUMPTION

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TPHS-1 IS A HIGH QUALITY DIGITAL SENSOR ALLOWING ACCURATE PH MEASUREMENTS. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø27 mm x LENGTH 207 mm

TECHNICAL SPECIFICATIONS

- RANGE : 0 TO 14 UNITS
- TEMPERATURE : -10°C TO +50°C
- ACCURACY : $\pm 0,1$ PH
- CARTRIDGE EASY TO REPLACE

POWER

- SUPPLIED BY THE TRMC

VERSIONS

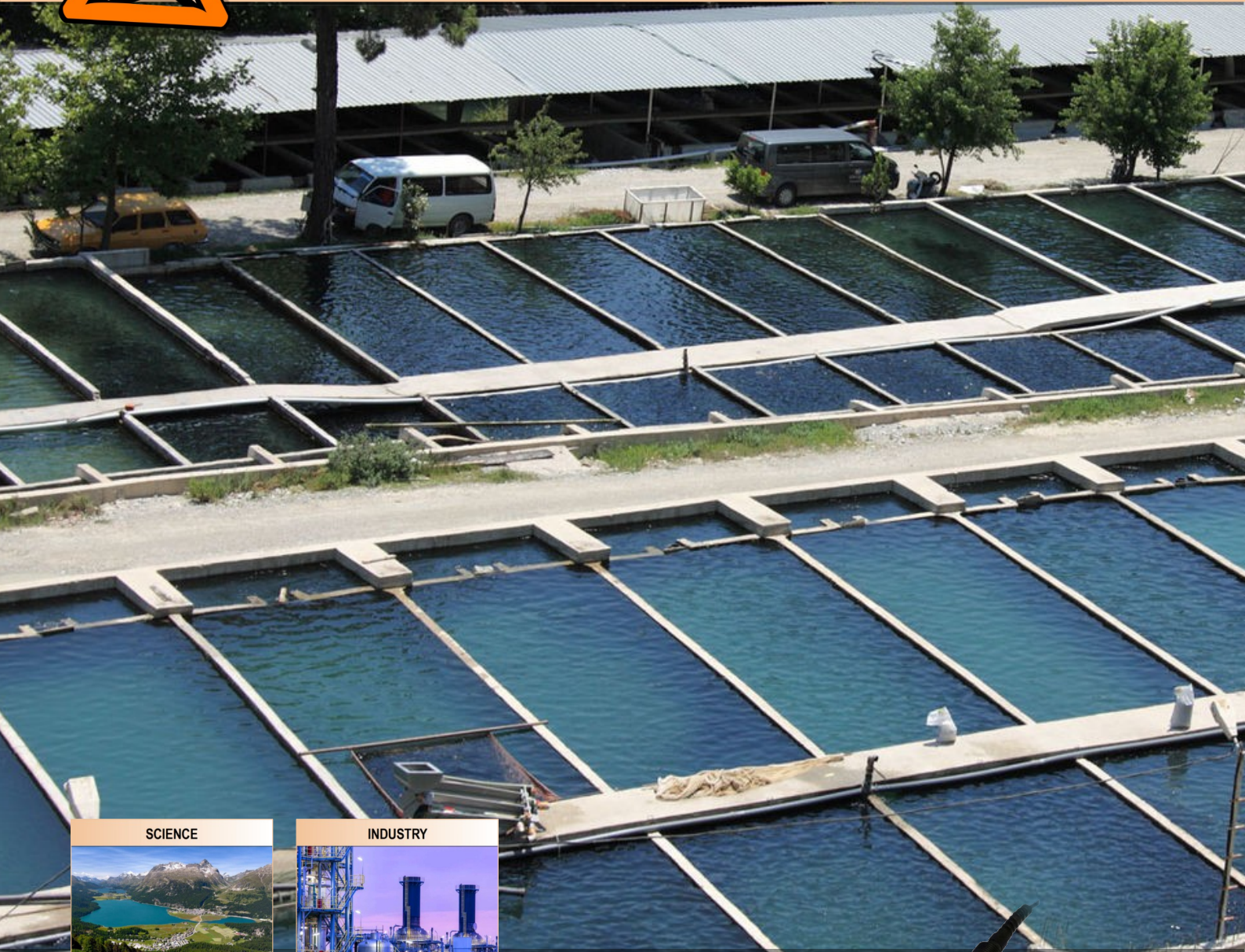
- TPHS-1-15 (15 m CABLE)
- TPHS-1-C CARTRIDGE FOR TPHS-1

USE-CASES

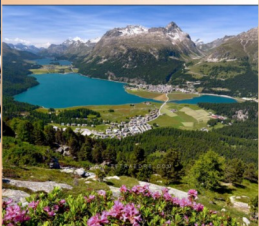
- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - PISCULTURE
- ENERGY
 - WATER
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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SCIENCE



INDUSTRY



THE DISSOLVED O₂ SENSOR PLUG AND PLAY WATER MONITORING

- FULLY CALIBRATED
- SUITABLE FOR FRESH AND SALT WATER
- QUICK REACTION TIME
- ROBUST AND EASILY EXCHANGEABLE SENSOR CAP



GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TDOS-1 IS A HIGH QUALITY DIGITAL SENSOR ALLOWING ACCURATE DISSOLVED O₂ MEASUREMENTS. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- DIGITAL

DIMENSIONS

- Ø30 mm x LENGTH 207 mm

TECHNICAL SPECIFICATIONS

- MEASURING RANGE:
 - 0 - 20 mg/L
 - 0 - 200 % SAT
- ACCURACY (AT 25°C): ± 1 %
- SENSOR CAP EASY TO REPLACE

POWER

- SUPPLIED BY THE TRMC

VERSIONS

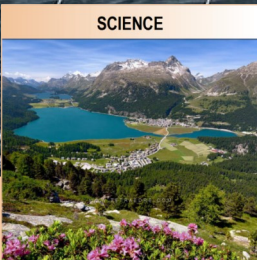
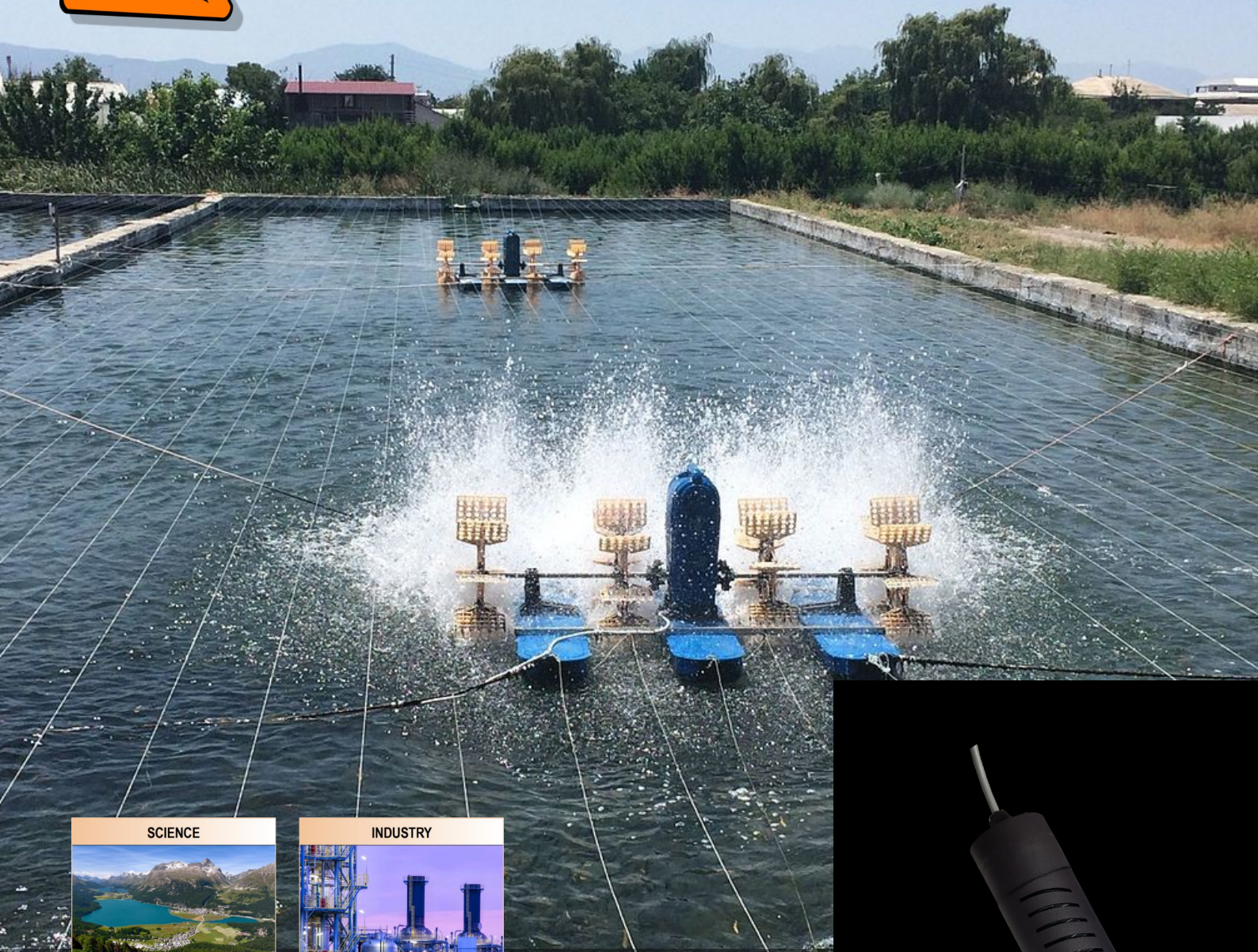
- TDOS-1 (5 m CABLE)
- TDOS-1-C CAP FOR TDOS-1

USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - PISCULTURE
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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THE DISSOLVED GAS PRESSURE SENSOR PLUG AND PLAY WATER MONITORING

- EASY TO INSTALL
- FULLY CALIBRATED
- SUITABLE FOR FRESH AND SALT WATER
- INTERFACE FOR LOGGERS AND PLC
- LOW POWER CONSUMPTION

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
SALES@TETRAEDRE.COM



DESCRIPTION

THE TDGP-1 IS ABLE TO MEASURE THE CONCENTRATION OF DISSOLVED GASES PRESENT IN THE WATER. THE VALUE IS CONVERTED IN A NUMERIC FORMAT AND CAN BE ACCESSED THROUGH THE RS-485 MODBUS RTU INTERFACE. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø70 mm x LENGTH 160 mm (WITHOUT CABLE GLAND)

TECHNICAL SPECIFICATIONS

- TDGP PRESSURE RANGE : 500 mbar TO 1500 mbar ABSOLUTE
- TDGP PRESSURE RANGE IN %: FROM 50% OF Patm TO 150%
- ACCURACY: 4 mbar
- EQUILIBRATION RATE: APPROXIMATELY 60 SECONDS
- RESOLUTION: 1 mbar
- MATERIAL: POLYAMIDE, COPPER, PVC AND STAINLESS STEEL
- DEPTH RATING: 5 m
- INPUT POWER SUPPLY: 12-24 VDC
- POWER CONSUMPTION: 3 mA
- SAMPLE RATE: MAX 1 Hz
- CABLE LENGTH: 2 m
- OTHER CABLE LENGTHS AVAILABLE ON REQUEST

POWER

- SUPPLIED BY THE TRMC

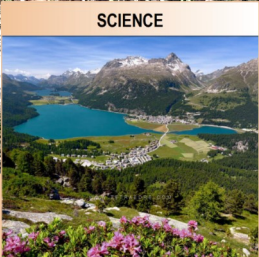
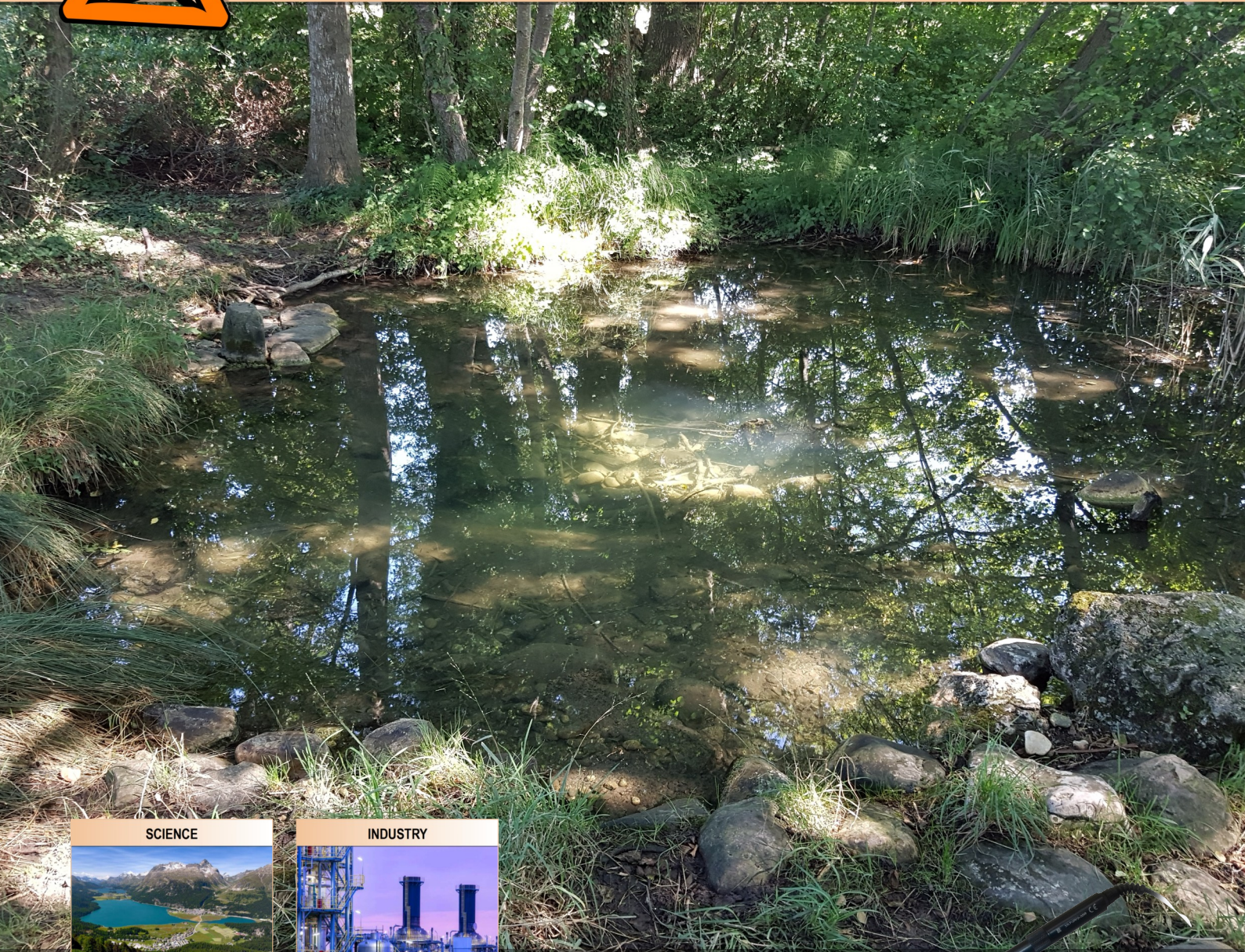
USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - FISH FARMS
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS



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THE REDOX SENSOR PLUG AND PLAY WATER MONITORING

- EASY TO INSTALL
- FULLY CALIBRATED
- ROBUST AND EASILY EXCHANGEABLE CARTRIDGE
- LOW POWER CONSUMPTION

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TRS-1 IS ABLE TO MEASURE THE REDOX POTENTIAL PRESENT IN THE WATER. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- MODBUS RTU RS-485

DIMENSIONS

- Ø28 mm x LENGTH 325 mm

TECHNICAL SPECIFICATIONS

- RANGE OF MEASURE
 - -1000 TO + 1000mV
 - T°C: 0,00 TO + 50,00°C
- ACCURACY :
 - ± 10mV
 - ± 0,5°C

POWER

- SUPPLIED BY THE TRMC

VERSIONS

- TRS-1 (10 m CABLE)
- TRS-1-C CARTRIDGE

USE-CASES

- SCIENCE
 - HYDROLOGY
 - HYDROGEOLOGY
 - PISCULTURE
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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THE WATER PRESSURE SENSOR PLUG AND PLAY PIPE MONITORING

- HIGH ACCURACY
- COMPACT
- LOW POWER CONSUMPTION
- STAINLESS STEEL

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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DESCRIPTION

THE TWPS-1 IS ABLE TO MEASURE THE PRESSURE PRESENT IN A WATER PIPE WITH HIGH ACCURACY. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- DIGITAL

DIMENSIONS

- Ø35 mm x LENGTH 95 mm

TECHNICAL SPECIFICATIONS

- STANDARD RANGE:
 - 0-6 bar GAUGE
 - 0-25 bar GAUGE
- OTHER RANGES UP TO 70 bar AVAILABLE ON REQUEST
- 5 m SHIELDED CABLE
- ERMETO 6
- WITH STAINLESS STEEL TUBE OF 6 mm DIAM.
- G1/2" MALE AVAILABLE ON REQUEST

POWER

- SUPPLIED BY THE TRMC

VERSIONS

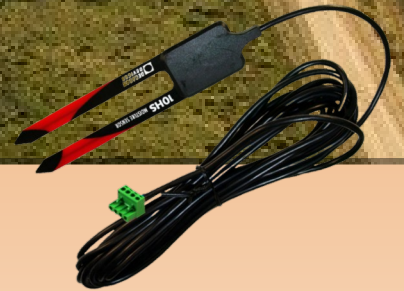
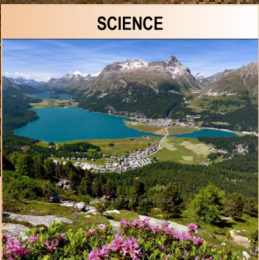
- TWPS-1-6-5 (6 bar, 5 m CABLE)
- TWPS-1-25-5 (25 bar, 5 m CABLE)

USE-CASES

- ENERGY
 - WATER
- INDUSTRY
 - MONITORING
 - ALARM SYSTEMS

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THE SOIL MOISTURE SENSOR PLUG AND PLAY MONITORING

- ACCURATE VOLUMETRIC SOIL MOISTURE MEASUREMENT
- INTEGRATED TEMPERATURE MEASUREMENT
- SUITABLE FOR ANY TYPE OF SOIL
- ROBUST AND RELIABLE
- EASY INSTALLATION
- COST EFFECTIVE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
SALES@TETRAEDRE.COM



DESCRIPTION

THE TSMS-1 IS AN ACCURATE FREQUENCY REFLECTOMETRY SOIL MOISTURE SENSOR. THE SENSOR HAS BROAD MEASUREMENT RANGE. IT'S MAINTENANCE FREE AND FROST RESISTANT. WITH SHORT RESPONSE TIMES AND LOW DISTURBANCES BY SALINITY IT'S DESIGNED FOR A LONG-TERM MONITORING. COUPLED WITH A TRMC, THIS SENSOR ALLOWS REMOTE TRANSMISSIONS WITH ONLINE DATA VISUALIZATION.

INTERFACE

- ANALOGIC

DIMENSIONS

- LENGTH 135 mm x WIDTH 21.5 mm

TECHNICAL SPECIFICATIONS

- ACCURACY :
 - USING FACTORY CALIBRATION \pm 3% IN MINERAL SOILS WITH MODERATE
 - SALINITY FROM 0 TO 50% (VWC)
 - TEMPERATURE : \pm 0,8°C
- RESOLUTION :
 - WATER CONTENT : 0,2%.
 - TEMPERATURE : 10mV / °C

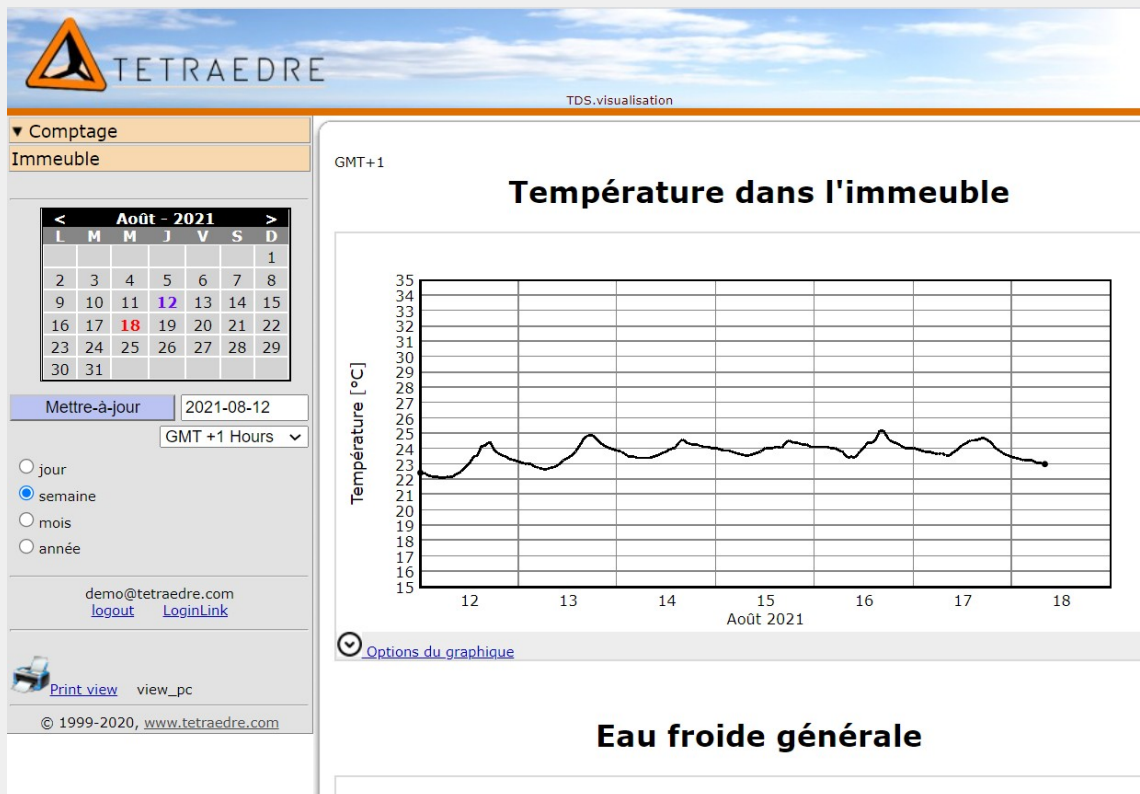
POWER

- SUPPLIED BY THE TRMC

USE-CASES

- SCIENCE
 - GEOLOGY
 - AGRICULTURAL

SERVER & VIZUALISATION



CLEAR AND RELIABLE MONITORING

Use our licensed or hosted server to use your data in a fast, secure and reliable way. You can also integrate the collected data directly into your existing system using the tetraedre data server bridge. Other tetraedre tools such as "axiome basic" will allow you to

easily analyze, read or configure your different devices in order to have a better control and management of your network. The ability to visualise your data in a clear and easy way will allow quality follow-up and reliable monitoring.

SERVER & VIZUALISATION LIST OF SERVICES

TDS-SAS-H/L
TETRAEDRE DATA
SERVER (TDS)

TDS-BRIDGE
CUSTOM SOFTWARE
DATABRIDGES

AXIOME BASIC
TETRAEDRE AXIOME
BASIC

▲ Comptage

- compteur d'eau
- compteur de chaleur
- compteur de gaz
- correcteur de gaz
- compteur électrique
- compteur électrique industriel

Immeuble

< Juillet - 2021 >

L	M	M	J	V	S	D
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Mettre-à-jour 2021-07-21

GMT +1 Hours

jour
 semaine
 mois 3 mois 6 mois
 année

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Comptage, compteur de chaleur

inscrire le numéro de série du compteur 1405317 [Liste des compteurs...](#)

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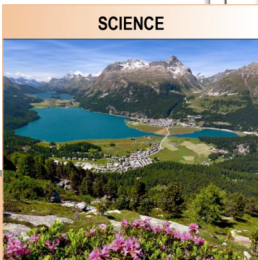
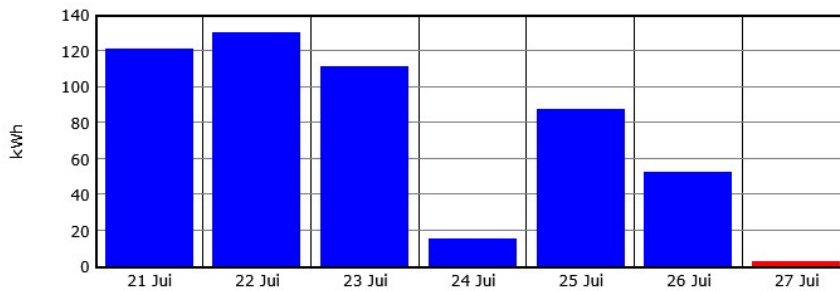
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Date	SNR	Index
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2021-07-28	1405317	?



Index download

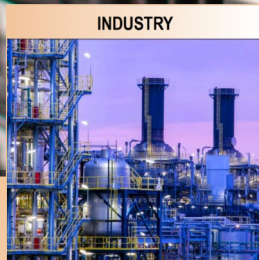
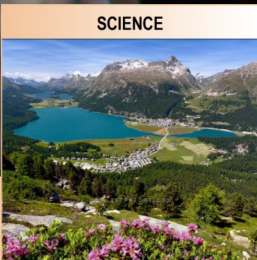
Valeurs journalières



TETRAEDRE DATA SERVER (TDS) HOSTED OR LICENSED: FAST, SECURE AND ALWAYS UP

- VERY POWERFUL DASHBOARD
- UNLIMITED DATA POINTS
- USER MANAGEMENT
- SECURED
- ENTIRELY CONFIGURABLE BY THE USER
- COST EFFECTIVE
- ACCESSIBLE BY PC OR SMARTPHONE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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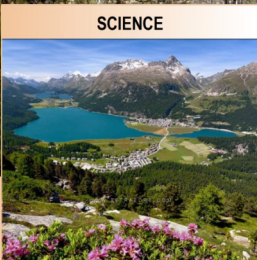
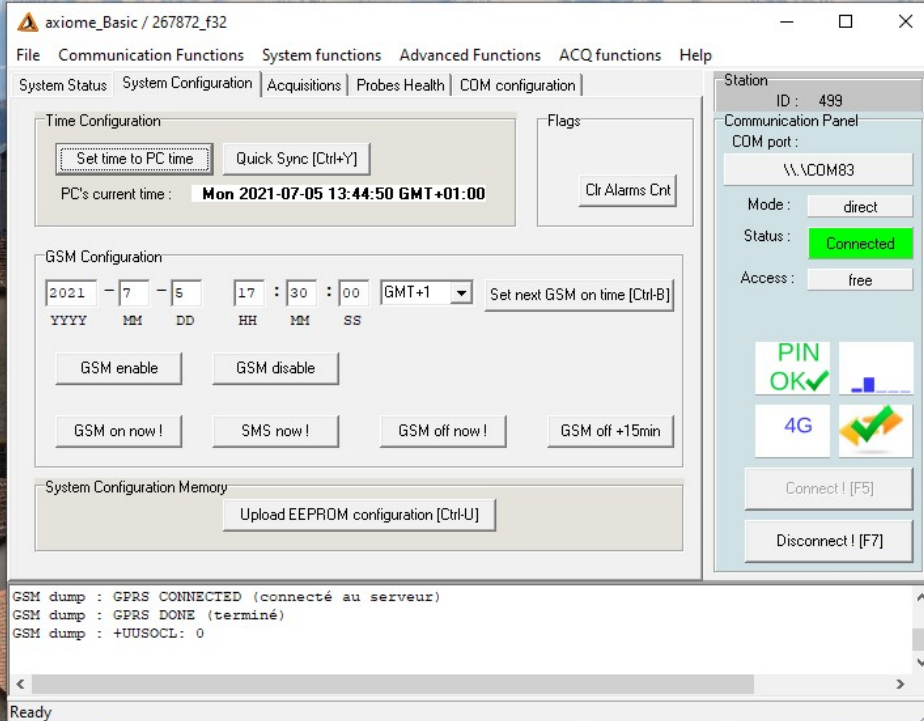


CUSTOM SOFTWARE DATABRIDGES PUSH TO YOUR PREFERRED 3RD-PARTY MONITOR

- EXPORTS TO OTHER SERVERS
- IMPORTS FROM OTHER SERVERS, PLATFORMS
- MANY DATA FORMATS AVAILABLE
- SECURED EXCHANGES



GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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TETRAEDRE AXIOME BASIC THE RETRO STYLE CONFIGURATION TOOL

- CONFIGURE ANY TRMC OR TRP
- OLD FASHIONED DESIGN TO AVOID DEPENDENCIES
- WORKS FROM WINDOWS 95 TO WINDOWS 10

ACCESSORIES



FINALISE YOUR PROJECTS WITH THE SUITABLE EQUIPMENT

Complete your installations with adapted and quality equipments. Our accessories can be adapted to the needs and constraints of

each project. The compatibility of the accessories with the different devices has already been proven over the years.

ACCESSORIES

LIST OF PRODUCTS

BATTERIES

**RECHARGEABLE OR
NOT**

CABLES

**THE CABLES YOU
NEED**

SOLAR

SOLAR PANNELS

ANTENNAS

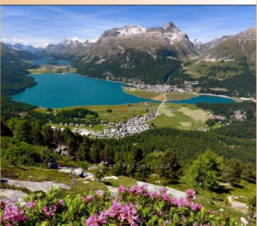
**INCREASE YOUR
SIGNAL**

TSB

**THE INTRINSIC
SAFETY BARRIER**



SCIENCE



ENERGY



INDUSTRY

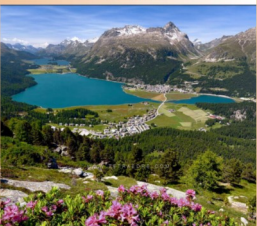


BATTERIES RECHARGEABLE OR NOT : WE PROVIDE WHAT YOU NEED

- LITHIUM BATTERIES
- LITHIUM-ION BATTERIES
- COST EFFECTIVE
- INTEGRATED SAFETY CIRCUIT



SCIENCE



ENERGY



INDUSTRY



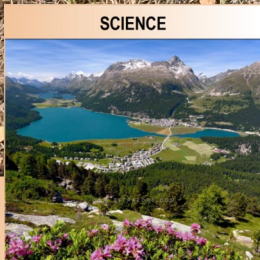
CABLES WE MANUFACTURE THE CABLES YOU NEED

- CUSTOMIZABLE
- HIGH QUALITY
- COST EFFECTIVE
- ANTENNA CABLE EXTENSIONS AVAILABLE



TETRAEDRE

SOLAR



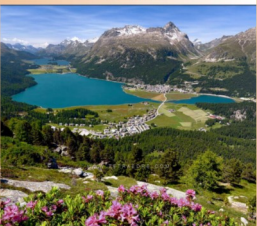
SOLAR PANNELS THE PERFECT SOLUTION FOR ULTRA REMOTE APPLICATIONS

- MANY FORMATS AVAILABLE
- ALLOW VERY LONG TERM MONITORING
- 12 V STANDARD VOLTAGE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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SCIENCE



ENERGY



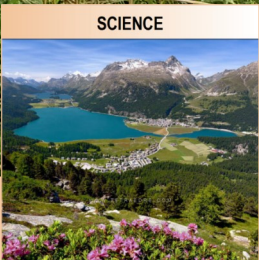
INDUSTRY



ANTENNAS TO EASILY INCREASE THE SIGNAL STRENGTH OF YOUR SOLUTION

- OMNI-DIRECTIONAL ANTENNAS
- DIRECTIONAL ANTENNAS
- VARIOUS CABLE LENGTHS AVAILABLE
- COST EFFECTIVE

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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THE INTRINSIC SAFETY BARRIER PROTECTION SYSTEM FOR APPLICATIONS IN EXPLOSIVE ENVIRONMENT

- PROTECTS LINES OF METERS AND SENSORS INSTALLED IN ATEX ZONES 1 OR 2
- DESIGNED FOR ANALOG AND DIGITAL SIGNALS
- PASSIVE BARRIER - DOES NOT REQUIRE A POWER SUPPLY
- 4 CHANNELS
- ATEX CERTIFIED

GET IN TOUCH TO DISCUSS YOUR USE-CASE AT
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SERVICES



OUR SERVICES TO MAKE YOUR PROJECTS EASIER

Use our expertise and services to configure, create or customise some products to your needs. You can also take advantage of our

rental service for periodic projects. our complementary services such as sim plans offer you complete, turn-key solutions.

SERVICES

LIST OF SERVICES

SIM

VARIOUS SIM PLANS

CONFIGURATION

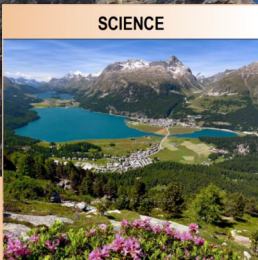
**WE CONFIGURE YOUR
DEVICE**

CUSTOMIZATION

**WE MAKE THE
HARDWARE OR
SOFTWARE YOU NEED**

RENTAL

WE RENT



VARIOUS SIM PLANS THE COST-EFFECTIVE SOLUTION FOR IOT TRANSMISSIONS

- COST-EFFECTIVE
- INTERNATIONAL COVERAGE
- ADAPTATED TO YOUR NEEDS
- 2G-3G-4G TRANSMISSION



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gsm_enabled="on" gsm_call="on" gprs="on"
time_zone="2" />
<ACQ_INTERVAL value="900" />
CONFIGURATION>
+++++ M-BUS PARAMETERS +++++
CONFIGURATION value="1">
<ACQUISITION_SEQUENCE value="0">
<TIMEOUT value="3" />
module="33" parameter_number="0" value="1" /> <!-- init for Lo
header="160" module="0" channel="21" /> <!-- Vbat -->
module="0" and="2" or="1" /> <!-- switch on M-BUS interface --
module="23" parameter_number="0" byte0="1" byte1="6" byte2="1
secondary address (SNR)
address, 1=secondary address (SNR)
TRMC-19-F, TRMC-30), 6=interface 6 (Radio Li
we will extract the SNR from Cust.I
read device
```



CONFIGURATION WE CONFIGURE YOUR DEVICE ACCORDING TO YOUR NEEDS

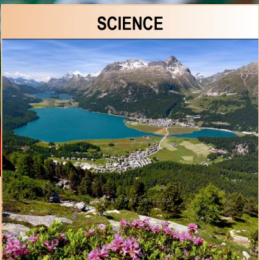
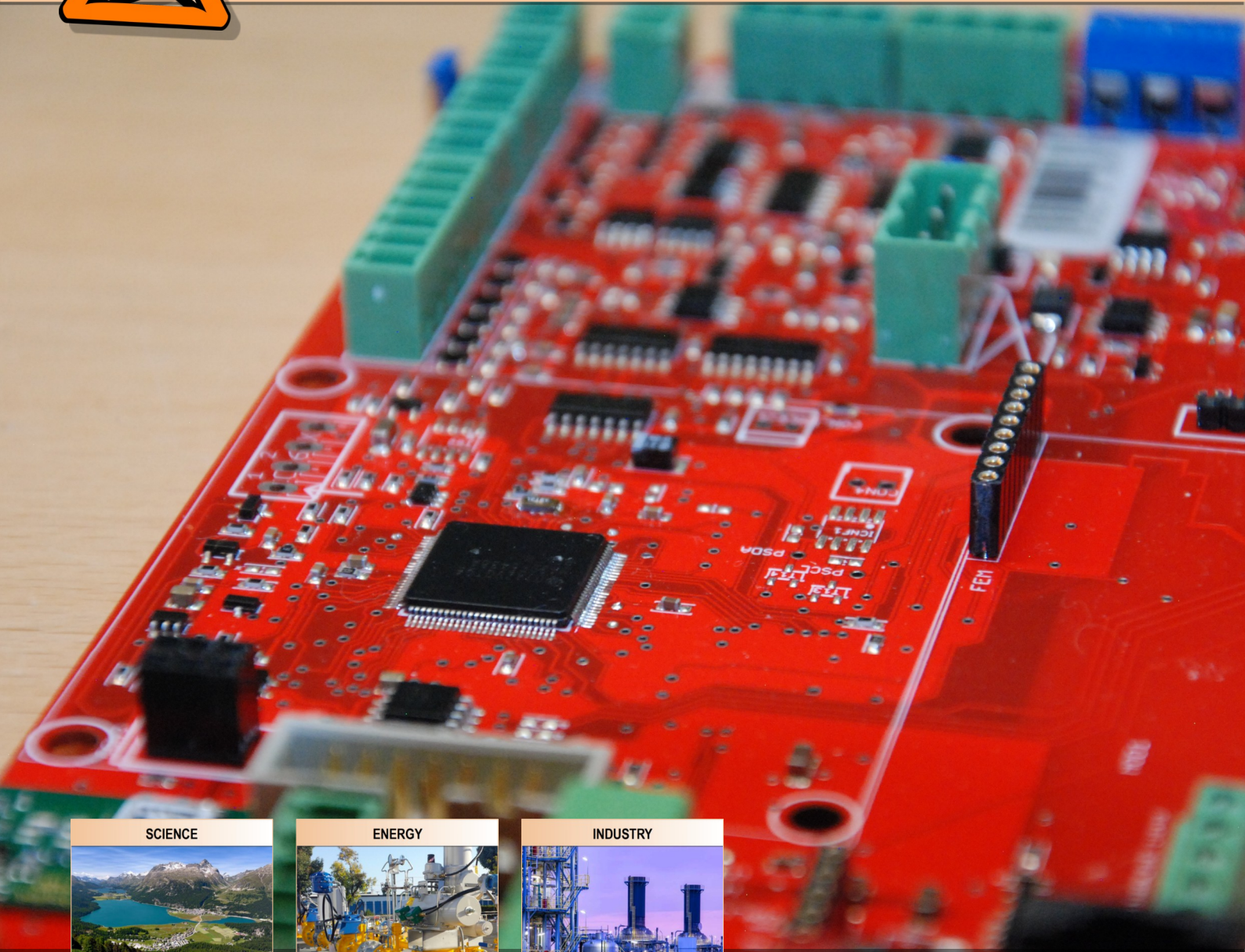
- CUSTOMIZABLE
- FILES VERSIONING
- COST EFFECTIVE

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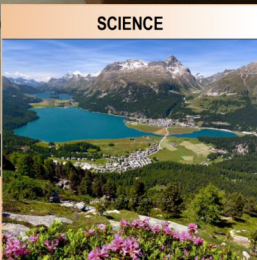
CUSTOMIZATION



CUSTOMIZATION
YOU CANNOT FIND THE HARDWARE OR SOFTWARE YOU NEED : WE MAKE IT

- LOW MOQ
- HIGH QUALITY
- COST EFFECTIVE

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- PLUG AND PLAY
- FULLY CALIBRATED
- COST EFFECTIVE
- WORLDWIDE DELIVERY

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LIST OF SERVICES

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VARIOUS SIM PLANS

CONFIGURATION

**WE CONFIGURE YOUR
DEVICE**

CUSTOMIZATION

**WE MAKE THE
HARDWARE OR
SOFTWARE YOU NEED**

RENTAL

WE RENT

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