



FRAMEWORK PURCHASE AGREEMENT

concluded pursuant to § 2079 et seq of the Act No. 89/2012 Coll., Civil Code, as amended

Contractual parties:

- 1.** **Fyzikální ústav AV ČR, v. v. i.**
Seat: Na Slovance 2, 182 21 Praha 8
Authorized representatives:
- in contractual matters: RNDr. Michael Prouza, PhD., Director
- in technical matters: [REDACTED]

ID No.: 683 78 271

Registered in the Registry of public research institutions kept by the Ministry of education, youth and sports

(hereinafter the “**Buyer**”), and

- 2.** **Ray Service, a.s.**
Seat: Staré Město, Huštěnovská 2022, PSČ 68603
Authorized representatives:
- in contractual matters: Petr Gabriel, board president/ Jakub Gabriel, board vicepresident
- in technical matters: [REDACTED]

ID No.: 27756203

Registered in commercial register kept by Regional court in Brno, B 5162

(hereinafter the “**Seller**”);

the parties jointly may be referred to as the “**Parties.**”

The Parties have agreed, on the day, month and year specified below, and on the basis of a completed public contract awarding procedure for the public contract entitled “**Leak warning and detection system components (TP20_094)**” (hereinafter the “**Procurement procedure**”), to conclude the following Framework Purchase Contract (hereinafter the “**Contract**”):

I. Subject of the Contract and general provisions

1. Under this Contract, the Seller shall deliver leak warning and detection system components compliant with the parameters agreed herein and provide certain associated services (the



components hereinafter the “**Components**”) to the Buyer under the terms agreed upon herein. Any provision hereof must be interpreted in accordance with the terms and conditions of the Procurement procedure and the bid submitted by the Seller thereto. The subject of this Contract is also the commitment of the Buyer to pay the purchase price for the Components agreed upon between the Parties in Art. III. hereof.

2. Detailed specifications of the Components are provided in the following Annexes hereof:
Annex 1: Technical Specifications (Requirements Specification Document)
Annex 2: Products and Prices
3. The Seller shall deliver Components identified in Annex 2 hereto by their catalogue numbers or by other designation or other Components that fully meet the requirements on the Components set forth by this Contract.
4. The Seller acknowledges that the Buyer is not, in relation to the performance agreed upon hereunder, in the position of an entrepreneur and that the performance is in no manner related to business activities of the Buyer.
5. The Components shall be new (unused).

II. Place of delivery, orders and delivery deadlines

1. Place of Delivery shall be the Buyer’s ELI Beamlines research facility: Průmyslová 836, 252 41 Dolní Břežany, Czech Republic.
2. This Contract is a framework contract under which the Buyer will order the Components in accordance with its actual needs based on individual written purchase orders. The Buyer is entitled to execute individual purchase orders within the entire term of validity of this Contract.
3. The Seller acknowledges that the numbers of Components to be ordered by the Buyer depend solely on the discretion of the Buyer, i.e. the Buyer does not promise to buy any minimum number of Components.

Should the Buyer not buy Components of any type in the numbers stipulated in Annex 2 hereto as “Quantity”, the Buyer shall have the right, in the financial extent remaining regarding the respective type of Component, to order any other type of Components (even the ones where the (maximum) quantity has already been reached). But the maximum total value of this Contract defined in Art. VII.2 hereof must not be exceeded.

4. The deadline for the delivery of the Components to the Place of Delivery under the individual purchase orders shall be 5 weeks from the date when the Seller received a written order from the Buyer.



III. Price and payment terms


1. Unit prices for the Components are stipulated in Annex 2 hereto. VAT shall be added on top of the unit price in accordance with valid legislation.
2. The unit prices have been agreed as the maximum prices including any and all associated costs, fees and payments and reflect any and all costs of the Seller associated with the performance of the Seller hereunder. The price includes all costs of the Seller accrued in production/ acquisition, delivery, support that may be provided by the Seller by telephone, operational overhead, IP rights, insurance, taxes (except for VAT), customs, provision of warranty and any other costs that may be in any manner associated with performance hereunder.
3. In case the Buyer orders Components defined in Annex 2 hereto and such Components are no longer available, primarily due to the technological development of the product, the Seller shall offer to the Buyer other similar Components. The technical parameters of such Components must not be in any manner below the standard that was defined herein. Should the production of any of the Components be stopped or should any Component become unavailable for other reasons, the Seller shall be obliged to inform the Buyer of such fact in sufficient advance so that the Buyer may order needed number of such Components.
4. The price for the Components shall be paid to the Seller in EUR on the basis of invoices – tax receipts, by bank transfers to the Seller’s account provided in individual invoices. The Seller shall be authorized to issue invoices only after timely and proper delivery and hand-over of the Components; all invoices must be accompanied by copies of delivery notes confirmed by the Buyer. The Buyer accepts only electronic invoices delivered to the email address efaktury@fzu.cz.
5. The invoices shall be due in 30 days of their receipt by the Buyer. If an invoice states any other due period such period is deemed irrelevant and the due period stipulated here applies.
6. Payment date shall be understood as the day the invoiced amount was remitted from the Buyer’s account to the Seller’s account.
7. Invoices issued by the Seller shall comply with all requirements defined by applicable legislation, particularly by provisions of Act No. 563/1991 Coll., on Accounting, as amended, and Act No. 235/2004 Coll., on VAT, as amended (for tax receipts). In case of any invoice failing to meet the requirements the Buyer shall be authorized to return such invoice before the due date to the Seller for correction. Once the invoice is corrected and delivered to the Buyer, the due period starts to run from the beginning.
8. The Buyer is entitled to request that any invoice contains identification of a dotation project from which the respective purchase is funded.



IV. Rights and obligations of the parties

1. The ownership right to the delivered Components and the risk of loss and damage thereto pass to the Buyer upon the takeover of the Components in the Place of Delivery based on a confirmed delivery note.
2. The Buyer can't store original packaging of the delivered Components. Absence of original packaging cannot constitute valid reason for denial of potential claims related to the Components.
3. The Seller shall not assign any rights or obligations hereunder to third persons without a previous written consent of the Buyer.
4. The Seller expressly agrees that it shall not have any right to assign or unilaterally set off any of the receivables it may have against the Buyer arising in connection with this Contract.

V. Defects and Warranty for Quality

1. The Seller provides warranty (guarantee) for quality of the Components for the period of 2 years starting on the date of their delivery to the Buyer.
2. The Seller is liable for defects present in the Components upon their handover to the Buyer and for defects that will occur throughout the warranty period.
3. The Buyer shall make any defect claims in writing (including the form of a simple email). The Seller shall establish a special email address for reception of defect claims. The Seller shall receive defect claims during the entire term hereof and the warranty period at:

4. The Buyer shall specify in the claim the description of the defect and provide, if available, additional documentation (photo or other documentation). Should the Seller not be able to assess existence of the defect without inspecting the Components, the Parties shall agree whether the Components shall be shipped to the Seller or whether the Seller will inspect the Components at the Buyer's site. Should the Buyer incur any costs in relation to claiming the defect (such as shipping costs), for which the Seller is liable, the Seller shall compensate the Buyer for any such costs. The Seller shall confirm to the Buyer the receipt of the defect claim within 2 working days of its delivery and shall inform the Buyer, within 5 working days from receiving the claim, carrying out the inspection or receiving the shipped Components for inspection, whether it recognizes the claim or not, and to propose the method of removing the defect in accordance with this Contract.
5. The Seller shall remove the defect by repair or by providing a replacement within 5 weeks from receiving the defect claim, unless a different deadline is agreed by the Parties due to the existence of objective obstacles.
6. In case of an irremovable defect and if the Buyer agrees, the defect might be removed by provision of an adequate discount.



7. In case the Seller fails to remove any defect within deadlines defined in Section 5 of this Article, or within additional period that may be agreed in writing between the Parties not exceeding 30 days, the Buyer shall be authorized to have the defect removed by a third person at its own cost and the Seller shall be obliged to compensate the Buyer for these costs within 15 business days from the Buyer claiming these in writing against the Seller. The Seller's liability (warranty) shall not be in any manner prejudiced by such actions.
8. Warranty does not cover defects caused by unprofessional handling, incorrect or inappropriate maintenance, failure to follow instructions of the manufacturers related to operation or maintenance of the Components, which were provided to the Buyer in writing.

VI. Delays, penalties

1. In case the Seller is in delay with delivery of any Component to the Buyer, the Buyer shall be entitled starting with the eighth day of the delay to claim a contractual penalty against the Seller in the amount of 0.2% of the price of the undelivered Component (without VAT) for each commenced day of delay; such contractual penalty shall not exceed 10% of the price of the undelivered Component.
2. In case the Seller is in delay with removing defects claimed by the Buyer during the warranty term, within the deadlines defined herein, the Seller shall starting with the eighth day of the delay pay a contractual penalty in the amount of 0.1% of the price of the defective Component for each commenced day of delay; such contractual penalty shall not exceed 10% of the price of the defective Component.
3. In case the Buyer is in delay with any payment due, the Buyer shall be obliged to pay late interest to the Seller in the amount specified by applicable legislation (Government Resolution No. 351/2013 Coll., as amended, or law replacing this resolution).
4. Contractual penalties shall be payable within 15 days of delivery of their enumeration by the other Party. Payment of contractual penalty does not prejudice the right to damages in the extent such damages exceed the amount of the contractual penalty.
5. The Buyer shall be entitled to unilaterally set off any contractual penalty against any payments invoiced by the Seller, even against those which have not become due yet.

VII. Term, validity and effective date

1. This Contract becomes valid upon its signature and effective upon its publication in accordance with the applicable law.
2. This Agreement is concluded for the period of 18 months (or a longer period if automatically extended in accordance with the following sentence) or until exhausting the financial limit of 73 000 EUR excl. VAT, whichever comes first. If neither of the Parties states in written no later than 2 months before time expiration of this Contract that it does not wish time extension of the term of this Contract, the term of the Contract is automatically extended by 6 months (maximum four times). The total financial limit of the Contract must not be exceeded.



3. This Contract may be terminated by:
 - a) agreement of the Parties in writing;
 - b) termination notice in writing subject to conditions described below;
 - c) withdrawal from the Contract by either Party due to reasons defined herein or by law.
4. The Buyer shall be entitled to terminate this Contract by a three-month termination notice in writing, without specifying the reason; the termination notice period starts to run on the first day of the month following the month in which the notice was delivered to the Seller.
5. The Parties are entitled to withdraw from the Contract in case of material breaches of contractual obligations by the other Party, if such material breaches affected the contractual rights of the withdrawing Party. Withdrawal must be made in writing and must be delivered to the other Party. The Buyer shall be entitled to withdraw from this Contract also partially in relation to an individual purchase order.
6. The following instances represent material breaches of the Contract, including but not limited to:
 - a) Seller's delay with delivery of any Components exceeding 90 days;
 - b) Seller's delay with removal of defects exceeding three times the applicable period granted hereunder;
 - c) repeated delay on the Buyer's part with payment of invoiced amounts for the Components exceeding 90 days.
7. All obligations of the Parties hereunder cease to exist when this Contract becomes ineffective. The rights related to damages compensation and the rights to contractual penalties arising before this Contract became ineffective survive as well as those obligations of the parties which are, by law, under this Contract or by their nature, meant to survive.

VIII. Final Provisions

1. This Contract shall be governed by the laws of the Czech Republic, in particular by the Civil Code.
2. This Contract constitutes the entire agreement between the Parties.
3. This Contract may be supplemented or amended solely by the way of written and numbered amendments.
4. Following annexes form an integral part of the Contract:
Annex No. 1: Technical Specifications (Requirements Specification Document)
Annex No. 2: Products and Prices



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European Structural and Investing Funds
Operational Programme Research,
Development and Education



5. The Parties confirm they have read the Contract before signing and they understand and agree to its contents. Both Parties confirm their agreement by signing.

On behalf of the Buyer:

Fyzikální ústav AV ČR, v. v. i.

Digitálně podepsal RNDr. Michael
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RNDr. Michael Prouza, PhD., director

On behalf of the Seller:

Ray Service, a.s.

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European Structural and Investing Funds
Operational Programme Research,
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Annex No. 1 – Technical Specifications (Requirements Specification Document)

Confidentiality Level	<i>BL - Restricted for internal use</i>	TC ID / Revision	00268277/D
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[RSD for product category A]

***Leak warning and detection system components
(TP20_094)***



Keywords

Leak, detection, warning, sensor

	Position	Name
Responsible person	Facility manager	██████████
Prepared by	System Engineer of Experiment Control Systems	██████████

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2	[REDACTED]	19. 05. 2020	RSD update, version for internal review	B
3	[REDACTED]	29. 05. 2020	RSD update, completeness check	C
4	[REDACTED]	12. 06. 2020	RSD final ver., release to Procurement	D

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1. Introduction

1.1. Purpose

The purpose of this public procurement is to purchase industry standard, high reliability detection components for timely warning and prevention against water leak incidents (further "System").

This Requirements Specification Document (RSD) lists the technical requirements and constraints on the subject of this public procurement.

1.2. Scope

This RSD and related referenced document RD-01 contain all of the technical requirements: *functional, performance, operational & design, transportation, safety & quality requirements* for the requested type of system (product).

The related PBS number (for internal ELI database) is: BLD.FACM.LEAK.

The subject of this purchase is a "**product**" of the **category A** according to the ELI Beamlines RSD nomenclature. The "category A" stands for off-the-shelf components without necessity of modifications and without necessity to undergo a verification program (reviews of design, inspection and testing) defined by the ELI Beamlines research infrastructure.

All verification activities shall be executed by a Supplier in accordance with the supplier's outgoing inspection plan.

The internal ELI's acceptance procedure shall be applied to all System's components before implementation into facility.

1.3. Terms, Definitions and Abbreviations

For the purpose of this document, the following abbreviated terms apply:

Abbreviation	Meaning
CA	Contract Authority
DI water	De-ionized water
ELI	Extreme Light Infrastructure
SS	Stainless Steel
SELV	Safety Extra Low Voltage, a design parameter for electrical circuits

1.4. Reference documents

Doc number	TC ID number	Title of document
RD-01	00268278/C	<i>Table: Specification of parameters and amounts</i>

1.5. References to standards

In case of this document includes references to standards or standardized/standardizing technical documents, the CA allows offer of another equal solution, too. If the supplier demonstrates that the offered supplies, services or building works meet in an equivalent manner the requirements framed by technical conditions (including standards or technical documents), the CA shall not reject it.

2. Functional, Performance and Design requirements

2.1. General requirements for all components of the system

This paragraph lists the requirements for the following components of leak detection and warning system:

- A. Alarm and Locating Module, 24VDC, with LCD and Relay
- B. Alarm and Locating Module, 24VDC, with Relay, no LCD
- C. Leader Cable from Module to Sensing Cable
- D. Sensing cable (normal water)
- E. Sensing cable (DI water)
- F. End termination
- G. Splitter for sensing cable
- H. Jumper Cable

REQ-029693/A

The supplier shall supply the parts with parameters and quantities specified in **RD-01**.

REQ-029695/A

Unless otherwise stipulated in dedicated requirements in the following text the all parts shall be able to operate in challenging environments within the temperature range between 0 degrees Celsius and 50 degrees Celsius.

REQ-029696/A

The product and all its parts must be designed for multiple cycles of connection and disconnection. The alarm modules and sensing cables must be demonstrably capable of at least five reconnection cycles without loss of functions.

REQ-029697/A

The all main System components spec. A. to H. shall be equipped with male and/or female connection terminals which will ensure the safe connection between them and guarantee the proper function and operation of the whole System.

2.2. Common requirements for modules with relay

NOTE: The term "Modules with Relay" refers to Chapter 2.1, Paragraphs A. and B.

REQ-029698/A

The module shall offer a standard industrial interface to connect to a host system (e.g. control system or PLC) to communicate the information specified in REQ-029723/A.

REQ-029699/A

The physical connection of this interface shall be realized with a shielded serial RS-485 connection.

REQ-029700/A

The communication protocol used by module for this interface shall be Modbus (<https://en.wikipedia.org/wiki/Modbus>) to be compliant with the CAs' internal PLC infrastructure.

REQ-029723/A

The module shall communicate at least the following information via this (Modbus) interface:

- a) detection of a leak,
- b) location of a leak,
- c) contamination of the sensor,
- d) detection resistance,
- e) system / unit status.

REQ-029724/A

The module shall be DIN-rail mounted.

REQ-029725/A

The module shall provide 1 or more alarm relays to signal that a leak was detected.

- a) These alarm relays shall be realized as voltage-free contacts in SPDT (Single pole, double throw) form.
- b) These alarm relays shall be suitable for 24VDC switching operations with a maximum current of 1A.
- c) It shall be configurable if these relays indicate the leak detection result in normally energized or normally de-energized mode. It shall be possible to change this configuration via a software interface.

These alarm relays shall be rated to 30V SELV level to be compliant with the CAs' internal machine safety systems.

REQ-029726/A

It shall be possible to configure a parameter / address so that the modules can be distinguished by the CAs' connected host systems via the interface specified in REQ-029698/A.

REQ-029728/A

The module shall be powered from a 24 VDC auxiliary power supply (not part of the delivery).

REQ-029729/A

All electrical contacts to the module (power, industrial communication interface, alarm relays, sensing cables) shall be realized with screw-in terminal contacts that are visibly labeled to show their purpose.

REQ-029730/A

The module shall provide/display the units of measure in meters.

2.3. Alarm and Locating Module, 24VDC, with LCD and Relay

The sensor interface module monitors the sensing cable which detects a leak, displays the location of the leak (indication in meters) and switches a relay to provide a local voltage-free contact closure. The module monitors up to 150 m of sensing cable. The module is using standard protocols for a communication to the host system (e.g. Control System) or directly to a PLC.

REQ-029731/A

The module shall visibly indicate at least the following information using a LED or display:

- a) a leak detected; this information shall remain until a user action was performed to reset it,
- b) the system status; the unit shall indicate if it requires servicing / maintenance,
- c) the communication status; the unit shall indicate if it is communicating with a host via the above specified interface.

REQ-029732/A

The module shall be equipped with LCD for leak location display.

2.4. Alarm and Locating Module, 24VDC, with Relay, no LCD

The sensor interface module monitors the sensing cable which detects a leak, indicates the leak with an LED and switches a relay to provide a local voltage-free contact closure. The module sends location in meters to a host monitoring system. The module monitors up to 150 m of sensing cable. The module is using standard protocols for a communication to the host system (e.g. Control System) or directly to a PLC.

REQ-029733/A

The module shall visibly indicate at least the following information using a LED:

- a) a leak detected,
- b) the system status; the unit shall indicate if it requires servicing / maintenance,
- c) the communication status; the unit shall indicate if it is communicating with a host via the above specified interface.

2.5. Leader Cable from Module to Sensing Cable

The Leader Cable is a non-sensing cable between the module and the sensing cable.

REQ-029747/A

The Leader Cable shall be equipped with the one end prepared for connection to the terminals in modules spec A. or B., and with a female metal connector at the other end. The design of connection terminals shall comply with the REQ-029697/A.

2.6. Sensing Cables – common requirements

The Sensing Cable detects the presence of a liquid at any point along its length and triggers an alarm, and pinpoints the location. The cable is connected to the Leader Cable and then to the Alarm and Locating Module. The Chapter 2.6 specifies the requirements common for both types of sensing cables – i.e. for a type designed for use with normal water and for a type designed for use with DI water.

REQ-029748/A

The cable shall be equipped with a male metal connector at the one end and with a female metal connector at the other end. The design of connection terminals shall comply with the REQ-029697/A.

REQ-029749/A

The cable shall be the 4-wire type; with separated wires for a conduction of at least three signals: alarm, continuity and leak measurements.

REQ-029750/A

The cable shall withstand the use in demanding environments and comply with the following requirements:

- a) it shall be constructed in a ruggedized form that exposes no metals for use in environments with potentially corrosive agents,
- b) it shall be operable in an environment with up to 70 degrees Celsius of environmental temperature,
- d) it shall be able to be abrasion resistant for at least 50 cycles.

REQ-029751/A

The cable shall be able to perform:

- a) a monitoring of sensor continuity,
- b) a detection of leaks at any point of the sensor if a larger area than 8cm is covered and sensed,
- c) it shall dry and reset itself within maximally 40 seconds after the removal from water.

REQ-029752/A

The cable shall have the pre-terminated sealed connectors.

2.7. Sensing Cable (for use with normal water)

REQ-029858/A

The Cable color shall be a highly visible signal color: red, yellow or orange. The chosen color shall be visibly different from the color of sensing cable for DI water.

REQ-029859/A

The cable shall be designed for use with the suspended piping i.e. it shall:

- a) be able to detect water directly on the piping without using drip trays,
- b) be designed to attach/mount directly to the bottom of suspended piping, required is no specific fitting material,
- c) have an absorptive synthetic fiber braid designed to lead water along the cable; it is increasing a detection of leak.

2.8. Sensing Cable (for use with DI water)

REQ-029860/A

The Cable color shall be a highly visible signal color: red, yellow or orange. The chosen color shall be visibly different from the color of sensing cable for normal water.

REQ-029861/A

The cable shall be functional even after 1hour of exposure to:

- a) Methanol (100%),
- b) Sodium hydroxide (<10%),
- c) Hydrochloric acid (< 30%).

REQ-029862/A

The cable shall be radiation resistant for a use in experimental halls and it shall be resistant against a cumulative dose/exposure of 500 Megagrays (5 Megarads) of gamma irradiation.

2.9. End termination

The End Termination terminates sensing circuit/cable.

REQ-029864/A

The End Termination shall be equipped with a male metal connector. The design of connection terminals shall comply with the REQ-029697/A.

2.10. Splitter for a sensing cable

The Splitter allows branching of the sensing circuit.

REQ-029865/A

The Splitter shall be equipped with one male connector (to connect to a cable from an alarm module or from the other sensing cable) on the one side and two or more female connectors on the other side (to connect the branches). The design of connection terminals shall comply with the REQ-029697/A.

2.11. Jumper Cable

The Jumper Cable is a data (non-sensing) cable between two sensing cables.

REQ-029866/A

The Jumper Cable shall be equipped with male metal connector at the one end and a female metal connector at the other end. The design of connection terminals shall comply with the REQ-029697/A.

3. Transportation Requirements

REQ-029704/A

The supplier shall transport the goods to the ELI facility.

REQ-029705/A

The parts shall be delivered in protective package preventing damage and contamination and a minimum of one ply of separate clean packaging.

4. Product Safety Requirements

REQ-029707/A

The Supplier shall supply a Declaration of Conformity or any other equivalent document legally recognized and accepted in the Czech Republic for each product type if the appropriate legislation determines the Supplier's obligation to have a Declaration of Conformity (or the equivalent document) for the purposes of a Product sale in the Czech Republic to fulfil the requirements of 2001/95/EC directive or applicable Czech law.

5. Product Quality Requirements

REQ-029708/A

The Supplier shall provide Instructions for use (Product User Manual) as a part of the delivered Product. The Instructions for use shall include the instructions and descriptions regarding the following:

- transport, handling and storage;
- installation and cleaning;
- safe operation and maintenance procedures.

*NOTE1: If the contractor defines special conditions relevant to warranty and quality preservation than the **Instructions for use** shall include information about such conditions.*

REQ-029709/A

The Supplier shall provide the CA with the measurement protocols from tests defined in the REQ-029861/A, Chapter 2.8.

REQ-029867/A

The Supplier shall provide the CA with the list of authorized service centers in Europe.

REQ-029710/A

The Supplier shall provide all the necessary datasheets in PDF format.

REQ-029711/A

The Supplier shall provide an information about outgoing check control of the Product. At least this information shall comprise declaration about execution of outgoing check and declaration of conformity with technical requirements defined by the product RSD and completeness of the Product.

NOTE: Alternatively the Supplier might provide the CA with the information detailed enough to prove meeting all the requirements stipulated herein (e.g.: catalogue/technical datasheets, product manuals or other similar documentation).

REQ-029713/A

The Supplier shall establish and maintain a nonconformity control system compatible with ČSN EN ISO 9001 (equivalent to EN ISO 9001).

6. Warranty

REQ-029714/A

All parts and components shall be delivered with 2 year warranty.



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Development and Education



Annex No. 2 – Products and Prices

Type	Description	Catalogue number of offered product	Quantity	Unit	Price/Unit (EUR ex. VAT)
Alarm and Locating Modul					
Module	Alarm and Locating Module, 24VDC, with LCD and Relay	TTSIM-2-24VDC	1	pcs.	██████
Module	Alarm and Locating Module, 24VDC, with Relay, no LCD	TTSIM-1A-24VDC	19	pcs.	██████
Components for Deionized Water					
Leader Cable					
Leader Cable	Leader Cable from Module to Sensing Cable for Deionized Water, Metal Connector, length min. 4 m	TT-MLC-MC-BLK	15	pcs.	██████
Sensing Cable					
Sensing Cable	Sensing Cable for Deionized Water, Metal Connector, length 30 m	TT-3000-30M/100FT-MC	35	pcs.	██████
Sensing Cable	Sensing Cable for Deionized Water, Metal Connector, length 15 m	TT-3000-15M/50FT-MC	16	pcs.	██████
Sensing Cable	Sensing Cable for Deionized Water, Metal Connector, length 7,5 m	TT-3000-7.5M/25FT-MC	14	pcs.	██████
End Termination					
End Termination	End Termination for Sensing Cable for Deionized Water, Metal Connector	TT-MET-MC	30	pcs.	██████
Splitter					
Splitter	Splitter for Sensing Cables for Deionized Water - min. 2 branches with connectors	TT-MBC-MC-BLK	14	pcs.	██████
Jumper Cable					
Jumper Cable	Data Cable between two Sensing Cables for Deionized Water, Metal Connector, length 15 m	TT-MJC-15M/50FT-MC-BLK	4	pcs.	██████



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Jumper Cable	Data Cable between two Sensing Cables for Deionized Water, Metal Connector, length 7,5 m	TT-MJC-7.5M/25FT-MC-BLK	2	pcs.	██████
Jumper Cable	Data Cable between two Sensing Cables for Deionized Water, Metal Connector, length 3 m	TT-MJC-3M/10FT-MC-BLK	6	pcs.	██████
Components for Normal Water					
Leader Cable					
Leader Cable	Leader Cable from Module to Sensing Cable, Plastic Connector, length min. 4 m	TT-MLC-PC	4	pcs.	██████
Sensing Cable					
Sensing Cable	Sensing Cable, Plastic Connector, length 15 m	TT1100-OHP-15M/50FT-PC	22	pcs.	██████
Sensing Cable	Sensing Cable, Plastic Connector, length 7,5 m	TT1100-OHP-7.5M/25FT-PC	11	pcs.	██████
End Termination					
End Termination	End Termination for Sensing Cable, Plastic Connector	TT-MET-PC	17	pcs.	██████
Splitter					
Splitter	Splitter for Sensing Cables - min. 2 branches with connectors	TT-MBC-PC	12	pcs.	██████
Accessories					
Calibration Tool	Mapping Tool for Sensing Cable	TT-MAP-TOOL	1	pcs.	██████
Calibration Unit	Battery Powered Portable Cable Test Unit	TT-PTB-1000	1	pcs.	██████
Hold Down Clips	Hold-Down Clips for Sensing Cable, bag of min. 200 pcs	TT-HDC-1/4-200-NA	4	pcs.	██████
Tags	Identification Markers for Sensing Cable, bag of min. 50 pcs	TT-TAG	1	pcs.	██████