Profile Status: Published

Technology Offer

Bespoke industrial monitoring and control solutions for facility management infrastructure, factories, plants and industrial sites

Summary

A Czech company offers solutions for continuous monitoring and control based on its proprietary software and hardware. The company is looking for design, architecture, engineering, project management consultancy agencies, and system integrators dealing with facility management interested in including the offered system in their product and services portfolios. Long-term technical cooperation and commercial agreements with technical assistance are being sought.

Creation Date	20 January 2017
Last Update	10 January 2018
Expiration Date	23 July 2018
Reference	TOCZ20170120001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/d815c147-6bbc-49e1-8208-19603c2adecb

Details

Description

The solution offered is aimed at solving any of the following tasks reliably, at low cost and with no disruption to existing operations:

- The client wants to incorporate Industry 4.0 principles in their operations.
- The client wants to know whether a facility is operating within the design parameters and want to see analytics.
- The client needs environmental information.
- The client wants to take immediate action in critical situations.
- The client wants to reduce staff costs for the routine operations, such as taking data readings, testing sensors, travel time to location.
- The client wants to streamline facilities management and operations.
- The client wants to upgrade an existing obsolete monitoring or data logging setup.
- The client needs to comply with facility management regulations.

The key advantages of the solution comparing with other similar continuous monitoring and control systems come from its particular modular architecture. At the core of its modules are industrial computers running BSD-based operating systems (BSD is Berkeley Software Distribution, one of the Unix operating systems) allowing for high-performance data acquisition and processing locally, advanced and complex control algorithms with a minimum of hardware

and advanced secure communications with servers and user apps. Furthermore, in contrast to other solutions, field sensors and controls do not need to be internet enabled which reduces their costs and improves the security.
The system's flexible architecture allows delivering cost-effective solutions on a wide range of scales: from monitoring a single location to a large spatially distributed site, or even geographically separated locations, which is beyond capabilities of existing similar high-performance solutions.

The key features of the system are:
1. Real time remote monitoring, data acquisition & data logging:
Voltage, current, frequency.
Active, reactive, full electrical power.
Active, reactive, full consumed energy of asymmetric loads.
Status of switches, cut-outs, safety devices.
Positions of flaps
Analogue and digital electric signals.
Air temperature, relative humidity, dew-point, wind speed/direction.
Vessel temperature, pressure, liquid level.
CO2 concentration.
Vibration/noise levels.

2. Remote control:
Complex automated control actions based on monitored parameters, such as, enabling a secondary power supply, alarm activation, motor start-up control, etc.
Sub-second response times (for local devices).
Operators can manually override or activate controls on demand, for example, in the case of planned maintenance.

3. User interface & user management:
Graphical user interface representing the controlled equipment functionality: electrical schemes or process flow.
Data reports, graphs and summaries.
Access control lists and privilege management for granular control.
Archiving/play-back of system events and user (operator) actions and commands.

The system has proven reliability, surpassing that of Industrial Internet of Things, stemming from its air navigation and airport industry pedigree.

The company is able to accommodate specific technical and business requirements of the partners and their customers. The cooperation expected is based on commercial agreement with technical assistance, when the company in cooperation with the local partner deliver the solution, install the system and train the staff or on the technical cooperation agreement when the company together with the client develop turn-key solution according to the client's needs.

Advantages and Innovations

The key benefits of the monitoring & control system are:
- Bespoke design for each individual use case.
- The system can be retrofitted on top of the existing equipment. Individual modules can be interfaced with existing sensors reducing the costs of installation.
- Independent & autonomous monitoring of existing process control systems.
- Suitable for spatially distributed sites or sites with remote locations thanks to the modular architecture.
- Advanced capabilities with minimal costs of sensors and control hardware due to the use of industrial computers.
- Detection of equipment faults at early stages.
- Power consumption optimisation.

- Advanced secure communication.
- Active network monitoring, data delivery verification, data-bottleneck redundancy – no data is lost.

Industrial computers with BSD-based operating systems, which are at the core of the each module, provide the next generation capabilities while reducing the amount of hardware required to perform a given task, since PLCs (PLC – Programmable Logic Controllers) could be eliminated from the setup. Hence, reducing the footprint and cost of installation the system can be integrated into larger enterprise management software through the available interfaces.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Private (in-house) research

Keywords

Technology

01001001	Automation, Robotics Control Systems
01003021	Remote Control
02	INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT
02006005	Construction maintenance and monitoring methods & equipment
09001002	Analyses / Test Facilities and Methods

Market

01004007	Network test, monitoring and support equipment
05007004	Monitoring equipment
06006002	Metering and monitoring
08002003	Process control equipment and systems
09007005	Facility management companies

NACE

C	Manufacturing
C.27.1.2	Manufacture of electricity distribution and control apparatus
N.81.1	Combined facilities support activities

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person
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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2006

Turnover

<1M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Czech

Client Country

Czech Republic

Partner Sought

Type and Role of Partner Sought

Type of partner sought: design, architecture, engineering, project management consultancy companies, and system integrators dealing with facility management interested in including the offered system in their product and services portfolios.

Cooperation expected:
In the case of commercial agreement with technical assistance the company, in cooperation with the local partner, will deliver the solution, install the system and train staff.
In the case of technical cooperation agreement, the company together with the client develop turnkey solutions according to their client's needs.

Type and Size of Partner Sought

SME 11-50,R&D Institution,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Attachments

Profile Status: Published

Technology Offer

UK designer and producer of innovative mobile anchor point safety barrier for a variety of sectors who work at heights seeks partners for commercial agency agreements with technical assistance, joint ventures or licensing agreements.

Summary

This award winning UK company specialise in the design and production of innovative health and safety products for emergency services, ministry of defence, glazing, lift and construction industries which can eliminate the need for scaffold and working at height by maximising safety and reducing costs. The company is looking for commercial agency agreements with technical assistance, joint ventures or licensing agreements.

Creation Date	01 August 2016
Last Update	26 January 2018
Expiration Date	31 July 2018
Reference	TOUK20160801001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/82ebf6b2-be78-46fe-b68e-8ae0c709bd59

Details

Description

This UK company was founded in 2005 by the managing director who drew on his experience over fifteen years undertaking critical risk assessments and responding to crisis situations in the emergency services in the United Kingdom. This enabled him to identify the need for the development of a safer way to work at heights and protect the health and safety of workers in a range of sectors.

The company design and produce innovative safety products which provide mobile anchor points and a safe environment for people working at height whilst simultaneously protecting the public.

The types of sectors who utilise the products are any which work at heights, emergency services such as fire brigade or ambulance services, security services, facilities management companies, councils, hotels, airports and organisations working in the lift industry.

The company is seeking partners with whom to form commercial agency agreements with technical assistance, joint ventures or licensing agreements. The type of partner required should be able to manufacture the products under licence but have contacts in sectors such as defence, emergency services, facilities management whom they could sell completed products to.

Advantages and Innovations

The company have innovated and designed the safety products for working at height from a hands on perspective having undertaken critical risk assessments to provide solutions in emergency situations and realising there was a shortfall in the market.
Most anchor points have to be fixed into a structural point of the building or require counter weights. The product requires neither, causes no damage, requires no tools for setup and is instantly mobile between work areas.
The products increase safety and reduce set up time (only 5 minutes to erect), they also reduce scaffold costs thus are a cost effective alternative and frequently the only option
Patents have been granted for UK and Australia and are applied for and pending for USA, Canada and Europe.
The equipment holds two fitters in either work restraint, fall arrest or work positioning and provides a secure anchor whilst repairs, replacement, window/signage cleaning, air conditioning repairs, satellite dish fitment and lift/shaft repairs and any other modernisation to properties taking place.
Product is light and easy to transport, set up and use and has been utilised both by the Ministry of Defence and special police operations.
The products is full adjustable to protect apertures of 3.7m wide and has been fully tested to support 1.9T
The product is ideal for multiple uses for any high rise buildings - hotels, offices, apartments, government buildings.

Stage of Development

Already on the market

Comments Regarding Stage of Development

Already on the market. Has been sold to facilities management and double glazing companies in the UK.

IPR Status

Patent(s) applied for but not yet granted,Patents granted

Comment Regarding IPR status

Patent granted for UK, Australia, pending for USA, Canada and Europe.
CE and other requirements can be achieved as and when required

Profile Origin

Other

Keywords

Technology

02006001	Materials, components and systems for construction
02006007	Management of construction process & life
10001002	Assessment of Environmental Risk and Impact

Market

08003007	Other industrial equipment and machinery
08005	Other Industrial Products (not elsewhere classified)
09007004	Engineering and consulting services related to construction
09008004	Other utilities and related firms

NACE

C.25.1.1	Manufacture of metal structures and parts of structures
F.43.9.9	Other specialised construction activities n.e.c.

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2005

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

UK BSEN795 B:2012 & TS 16415:2013 US ANSI Z359.1 2007 Australia AS/NZS 5532:2013

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

The client seeks a partner who has the capabilities to manufacture personal fall protection equipment which comply to British Standard EN 795 B: 2012 and anchor devices CEN/TS 16415: 2013 for a commercial agreement with technical assistance, joint venture or licensing agreement.

Type and Size of Partner Sought

SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance
Joint venture agreement

Attachments

Profile Status: Published

Technology Offer

A Portuguese research group offers to perform tests on the classification and reaction of building products to fire

Summary

A Portuguese research group performs tests and assign the European classification of reaction to fire performance of building products and systems, namely: wall finishes and wall claddings; ceiling finishes and suspended ceilings; floor coverings; thermal insulation products and systems, namely ETICS (External Thermal Insulation Composite Systems); other construction products. The group wants to cooperate via a research and/or technical cooperation agreement.

Creation Date	26 July 2017
Last Update	02 August 2017
Expiration Date	02 August 2018
Reference	TOPT20170726006
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b91a332e-f8f8-4064-8ad7-d6ad4c3d7493

Details

Description

This Portuguese research group offers their experimental facilities whose main characteristics are described below.
It performs different tests over construction materials, products and systems, namely the following:
• lignitability test;
• non-combustibility test; determination of the heat of combustion;
• determination of the burning behaviour using a radiant panel (floorings);
• determination of the burning behaviour under exposure to a single burning item (SBI test).

The Portuguese research group is open to cooperate with partners from industry, universities or other R&D institutions, seeking for knowledge and expertise on experimental reaction to fire activities.

The group is searching for partners wishing to participate in a technology transfer process. For that purpose, their facilities are available to share with partners that may build on their expertise and scientific findings to develop new products and services.

They are looking for partners to establish a technical and/ or research cooperation agreement.

Advantages and Innovations

Besides testing activities in support of the technical assessment and approval of construction materials, products and systems, the group offers other services, namely:
• tests aimed at the assignment of an European reaction to fire classification;
• indicative tests to obtain information on the probable European reaction to fire classification of construction products or families of products;
• tests supporting either the development or the improvement of the reaction to fire performance of construction products;
• tests subcontracted in the scope of factory production control;
• research studies aimed at the development of either indirect or simplified test methods for factory production control carried out by manufacturers.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Other

Keywords

Technology

02007001	Adhesives
02007003	Ceramic Materials and Powders
02007004	Colours and varnish
02007018	Advanced Textile Materials

Market

09007004	Engineering and consulting services related to construction

NACE

M.71.1.2	Engineering activities and related technical consultancy
M.71.2.0	Technical testing and analysis

Network Contact

Issuing Partner

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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1946

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French
Portuguese
Spanish
Italian

Client Country

Portugal

Partner Sought

Type and Role of Partner Sought

The Portuguese research group is looking for SMEs, R&D Institutions or Universities seeking for knowledge and expertise on theoretical and experimental reaction to fire of construction products activities.

They are looking for partners via a technical and/ or research cooperation agreement.

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Attachments