REMOTE PLC

INTRODUCING

FEATURES

CONNECTIONS

APPLICATIONS

CERTIFICATES

ETHERNET PLC

GSM-GPRS/4G PLC

Wi-Fi PLC

RIEVTECH

INTRODUCING

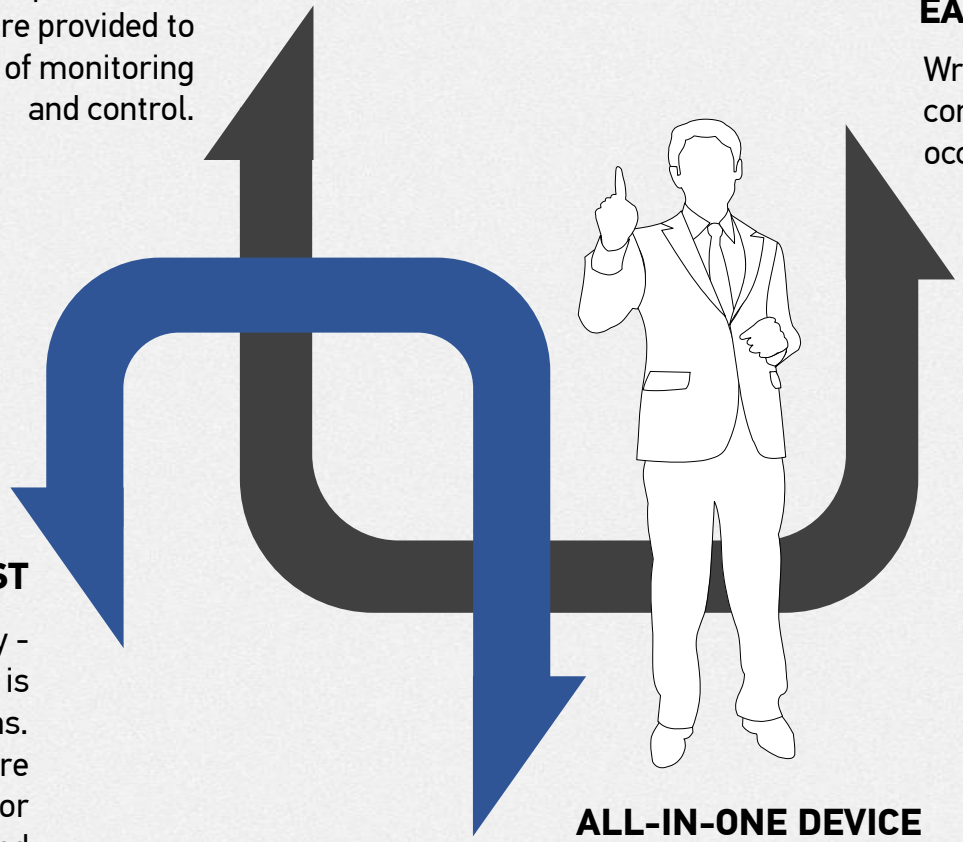
Benefits and Advantages

SIMPLICITY AND CONVENIENCE

Free application for smartphones and free SCADA system are provided to improve the convenience of monitoring and control.

EASY SETUP AND CONFIGURATION

Writing a control program, setting up communication channels and debugging occur in the same software environment.



CUTTING DOWN THE COST

Significantly reduced costs. As primary - due to the use of one device which is ideally suited exactly to your conditions. And the subsequent operating costs are reduced by eliminating the need for departures for maintenance and adjustment of equipment at an object.

ALL-IN-ONE DEVICE

There is no need to use additional communication modules and modems. Which take up extra space and effort for configuration. For each task, there is a suitable PLC that will provide connectivity to channels available at the site location.

INTRODUCING

Remote PLC ELC and EXM Series

COMPARISON TABLE

Remote PLCs are represented by ten models. Device versions are available with 12V / 24VDC and 120V / 240V AC power, analog inputs (0-10V, 0-20mA, PT100), high-speed inputs and outputs, and a model with audio output.

	Ethernet	GSM-GPRS	Wi-Fi
ELC-12AC-R-N	✓		
ELC-12DC-DA-R-N	✓		
EXM-8AC-R		✓	
EXM-8DC-PT100-R(-4G)		✓	
EXM-12DC-DA-R(-4G)		✓	
EXM-12DC-DAI-R(-4G)		✓	
EXM-12DC-DA-R-N(-4G)	✓	✓	
EXM-12DC-DA-R-VN	✓	✓	
EXM-12DC-DA-RT-WIFI	✓		✓
EXM-12DC-DA-RT(-4G)GWIFI	✓	✓	✓

FEATURES

Remote PLC Highlights

GENERAL FEATURES

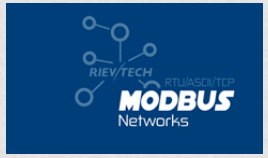
REAL TIME CLOCK / CALENDAR

DATA LOGGING TO A MICRO SD CARD (OPTIONAL)

69 ADVANCED FUNCTIONAL BLOCKS

FREE SOFTWARE

EXPANSION INTERFACE



CONTROL, MONITOR AND SUPERVISE WITH MODBUS

NEW AND IMPROVED LCD AND KEYPAD

ANDROID APP

FEATURES

Inputs and Outputs

POWER

According to the power voltage using in a project you can determine the type of PLC and Power Supply that you need.

ANALOG INPUTS - PT100*

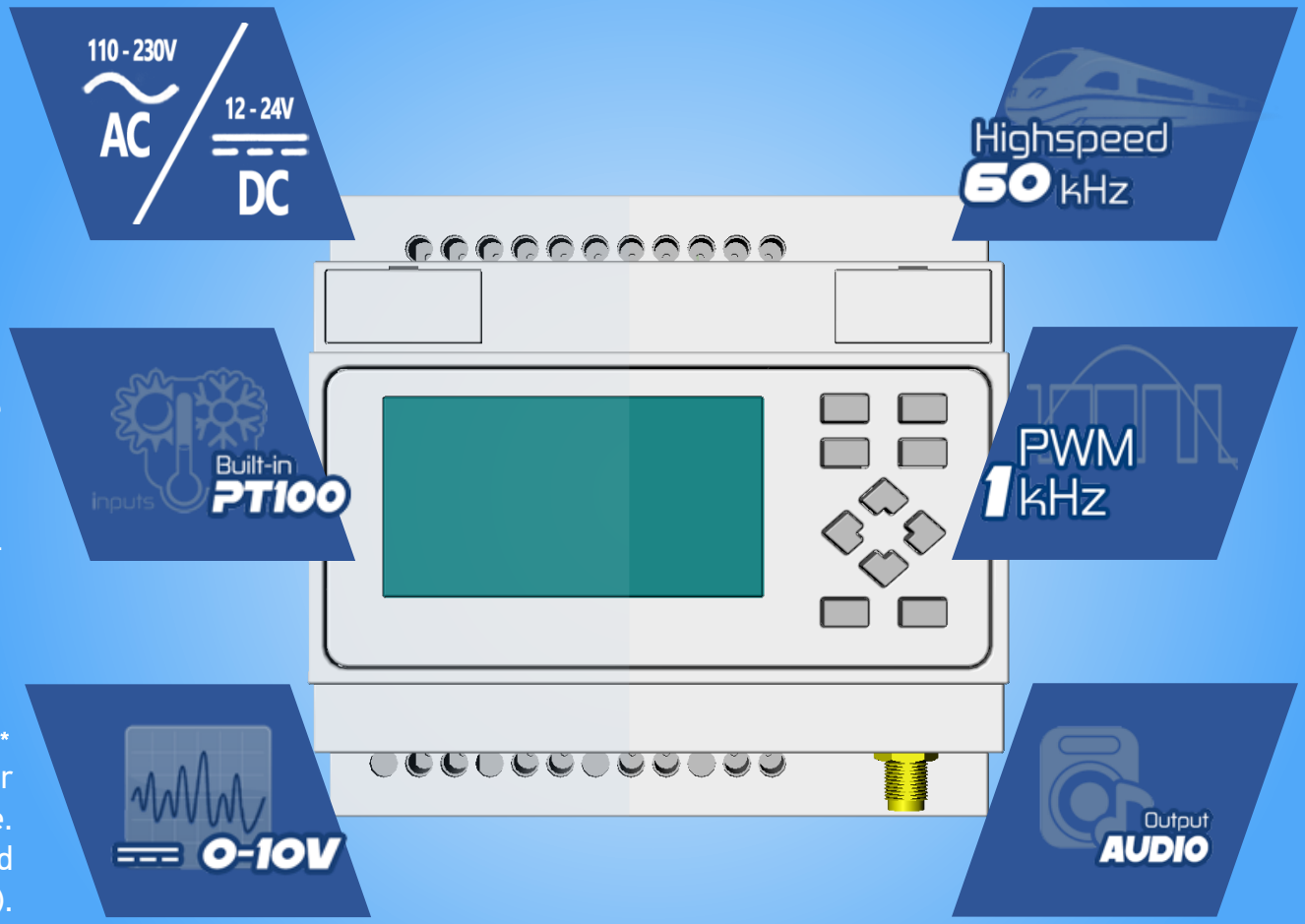
Heating and cooling systems can be designed with using PT100 built-in inputs. No need to buy additional module.

* - Only in EXM-8DC-PT100-R(-4G) model

ANALOG INPUTS - 0-10V (0-20mA)*

The PLC use analog inputs to monitor continuous signals which vary over time. 0-10VDC analog inputs can be configured with a resolution of 10 bit (0-1024).

* - Model EXM-12DC-DAI-R(-4G) has also 0-20mA inputs



HIGH-SPEED INPUTS*

There are numerous applications for high-speed inputs and their associated high-speed counters in the PLC for use with shaft encoders and resolvers.

* - Only in DC models

HIGH-SPEED OUTPUTS*

With high speed outputs, precision and stability, the PLC can easily achieve fine temperature control, proportional valve control, and simple yet practical low cost A outputs.

* - Only in RT models

AUDIO OUTPUT

Connect an external speaker to play audio alarms or messages that will grab the operator's attention.

* - Only in EXM-12DC-DA-R-VN model

FEATURES

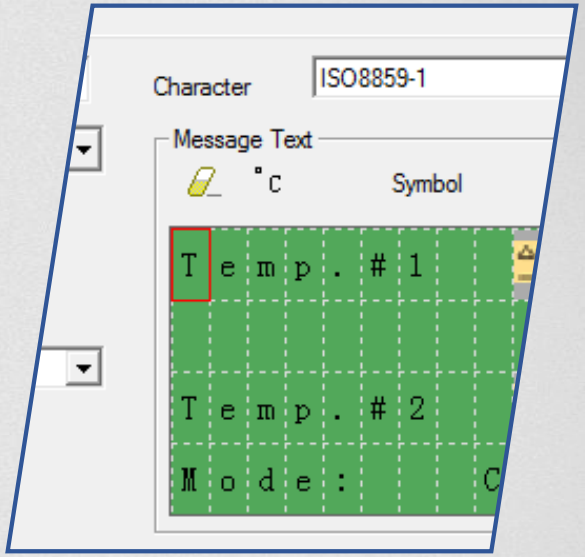
Screen and Keypad

Keypad

With the programmable keys, you can reduce the number of used pushbuttons.
Modify parameters via Keypad panel without downloading new program.

LCD

The PLC has a new and improved LCD operator interface which can display 4 lines, each with up to 16 characters. LCD with configurable backlight and contrast can provide visual feedback of system status



Configurable messages

I/O status, user configurable messages (up to 64) with dynamic data, FBD program monitor and controls. Record on an alarm page and display the exact alarm occurrence time. Parameters can be modified in the alarming message.

FEATURES

Expansion

UP TO **8** MODULES

EXPANSION MODULES

A wide variety of expansion modules such as Digital I/O, Analog I/O and communication modules are available to create the application you need. Flexibly expandable up to 40DI, 36DO, 36AI and 36AO.

EXM-E-8AC-R	4 digital inputs and 4 Relay Outputs (2x3A + 2x10A)
EXM-E-AI -I	4 analog inputs (0/4-20mA)
EXM-E-PT100	2 analog inputs (thermistor PT100)
EXM-E-AQ-V	2 analog outputs (0-10V)
EXM-E-AQ-I	2 analog outputs (0/4-20mA)
EXM-E-8DC-DA-R	4 digital (4 analog - 0-10V) inputs and 4 Relay Outputs (2x3A + 2x10A)
EXM-E-RS485	Additional RS485 Port

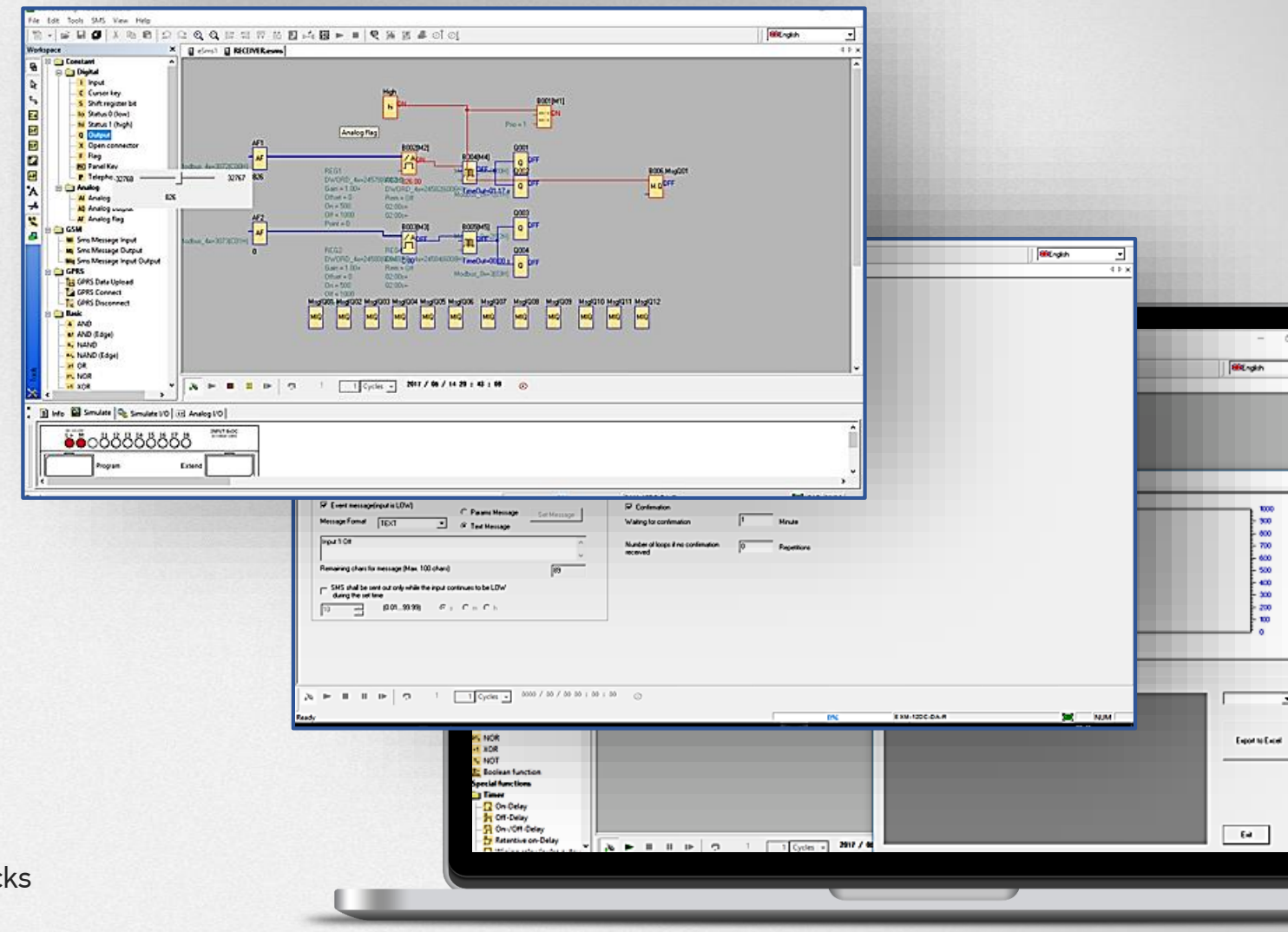
FEATURES

Free Software – eSMS Config

Programming Soft allows you easy programming and configuration of each PLC directly from your PC or Laptop. With guaranteed **“free for life” software updates** you will always have access to the latest software enhancements. Download the software and evaluate at ease via our website – rievtech.com.

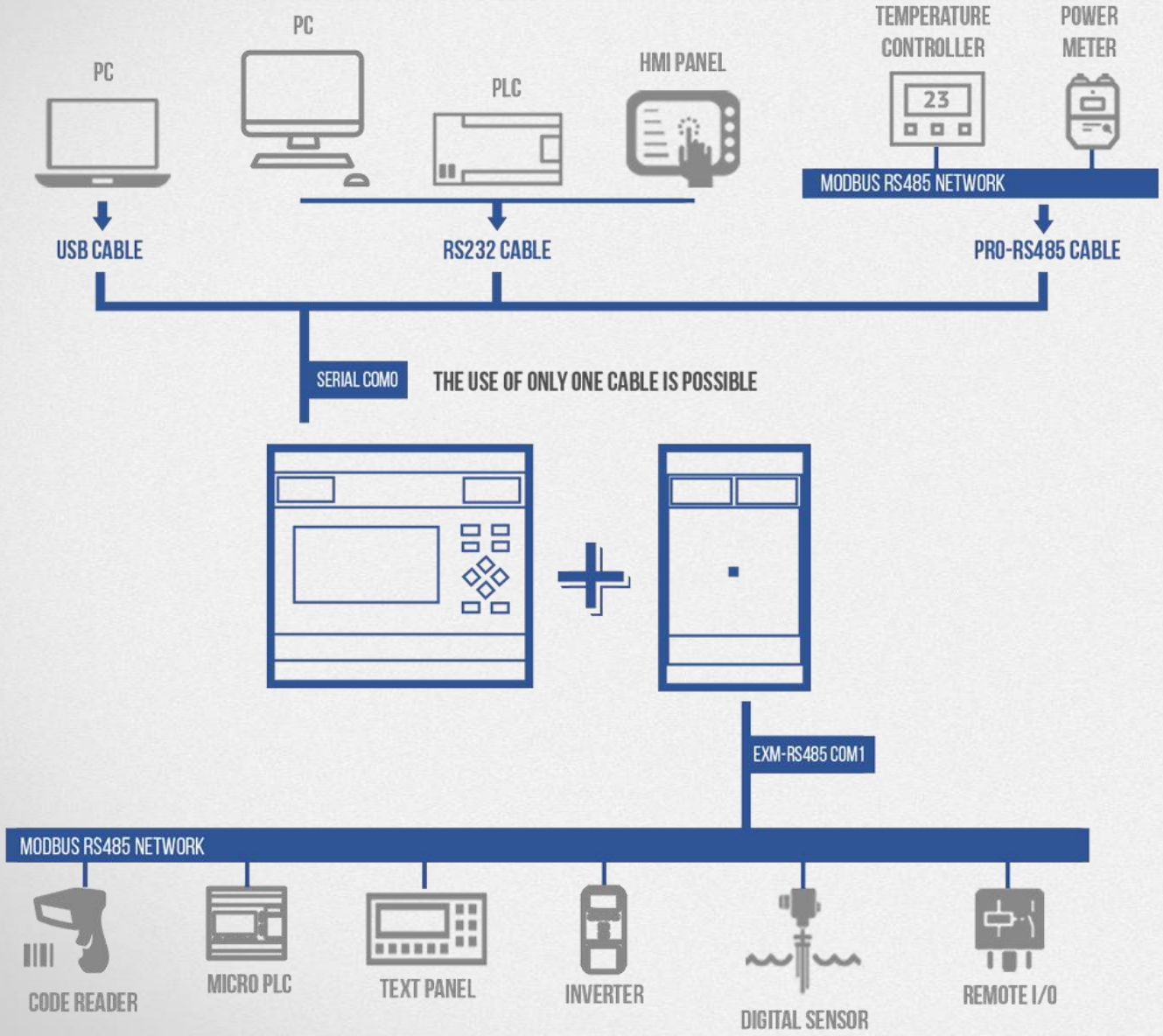
Ready-made function blocks (over 60 types) and the possibility of the virtual connection of these blocks will help you quickly create a control scheme. There are such block as Timers, Analogue, Communication, Convertors and other.

To simplify debugging and testing programs is available **emulation mode** on your PC. During the simulation, you can simulate actuation sensors, buttons, analog signals, power down.
In emulation mode you can clearly see the work of the functional blocks and change their parameters.



CONNECTIONS

Serial



CONTROL, MONITOR AND SUPERVISE WITH MODBUS RTU/ASCII MASTER

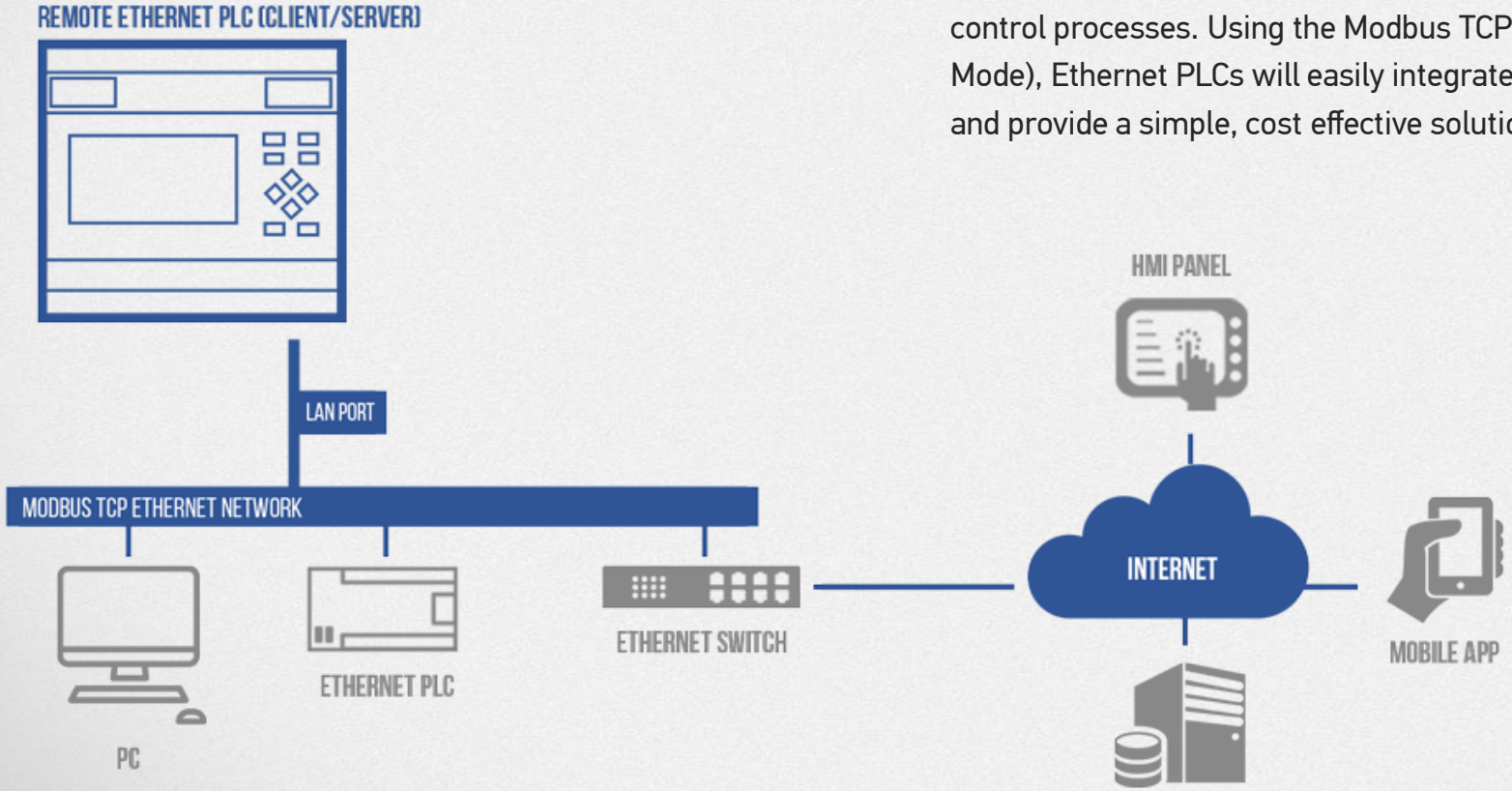
Modbus is the most popular industrial protocol being used today, for good reasons. It is simple, inexpensive, universal, and easy to use.

CONNECTIONS

Ethernet

EMBEDDED ETHERNET PORT

Now you can monitor status in real-time, receive email alerts and control processes. Using the Modbus TCP protocol (Client or Server Mode), Ethernet PLCs will easily integrate into existing networks and provide a simple, cost effective solution for your application.

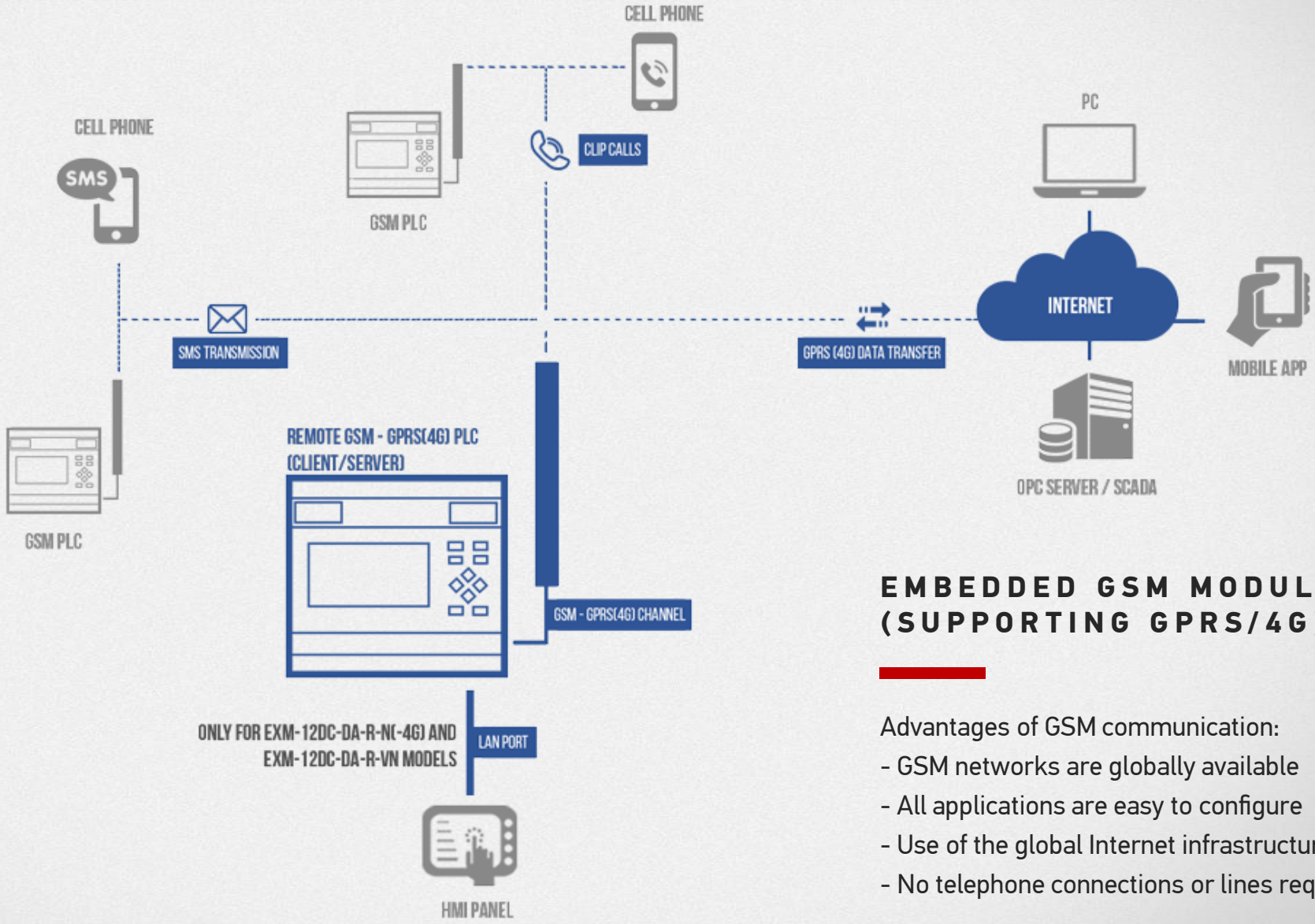


CONNECTIONS

GSM – GPRS (4G)

GSM – GPRS(4G) PLC

- GPRS (4G), SMS, Email and CLIP support
- Parameters in the program changing by means of SMS via cell phone
- Remote configuration via GPRS and user friendly eSms Config software
- IO status, alarming message includes counters, analog values can be directly sent to Users



EMBEDDED GSM MODULE (SUPPORTING GPRS/4G)

Advantages of GSM communication:

- GSM networks are globally available
- All applications are easy to configure
- Use of the global Internet infrastructure
- No telephone connections or lines required

CONNECTIONS

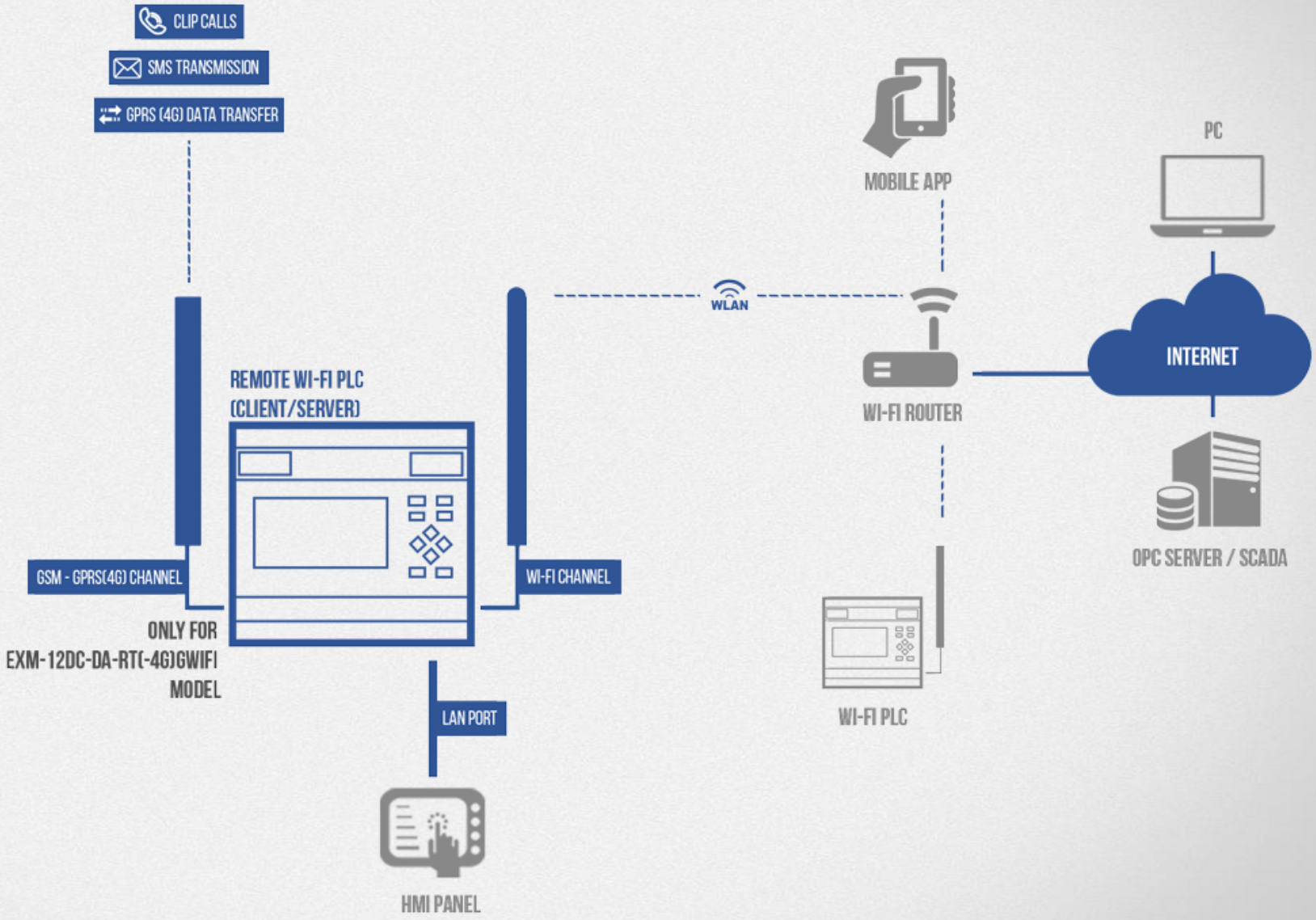
Wi-Fi

ENJOY THE ALL BENEFITS OF WIRELESS CONNECTIVITY.

Wifi plc is a reliable and cost effective alternative to new cable paths for remote control technology, particularly when installing new system parts or replacing defective communication cables.

WI-FI PLC

- Support 802.11b/g/n wireless standards
- Support TCP/IP/UDP network protocols
- Support work as STA/AP mode
- Support Router/Bridge mode networking
- Support Friendly Web Configuration Page (and also can be configured with eSmsConfig).
- Support Palmodic Signal, WIFI connection instruction Outdoor 100m with 3dBi antenna and indoor 40m



APPLICATIONS

Examples

CUSTOMER APPLICATIONS

- Security Alarm System applications
- Supervision and monitoring alarm systems
- Automatic monitoring system
- Pumping Stations
- Buildings and Real Estate
- Weather Stations
- River Monitoring and Flood Control
- Oil and gas pipelines
- Humidity and temperature monitoring for server room and data centers
- Energy monitoring and output power control for solar parks
- Corrosion protection
- Valve controls
- Wellheads
- Energy saving street lights control system Tanks, levels, temperatures, water leakage applications
- Transformer stations
- Unmanned machine rooms

CERTIFICATES

International Acceptance

CE RoHS FC

ISO 9001:2008 SGS · UKAS QUALITY MANAGEMENT 005 · c UL · REACH COMPLIANCE

CERTIFICATE OF COMPLIANCE

Certificate Number	20160928-E484271
Report Reference	E484271-20160928
Issue Date	2016-SEPTEMBER-28
Issued to:	Rievtech Electronic Co.,Ltd Room 102, No.88, Dazhou Road, Yuhuatai District Nanjing, 210012 CHINA
This is to certify that representative samples of	PROGRAMMABLE CONTROLLERS Programmable controllers, EXM Series, Model EXM-8DC-PT100-R-4G, Model EXM-12DC-DA-RT-WIFI, Model EXM-12DC-DA-RT-4GWIFI, Model EXM-12DC-DA-R-4G, Model EXM-12DC-DA-R-N-4G, Model EXM-12DC-DAI-R-4G and Model ELC-12DC-DA-R-N.
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL61010-1 and CAN/CSA-C22.2 No. 61010-1-12, Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements UL61010-2-201 and CAN/CSA C22.2 No. 61010-2-201:14, Electrical Equipment For Measurement, Control, and Laboratory Use – Part 2-201: Particular Requirements for Control Equipment
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

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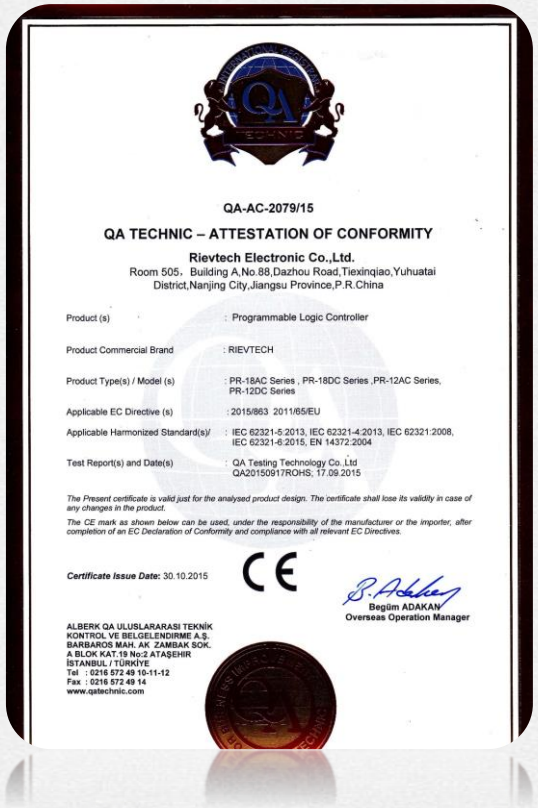

QA-AC-2079/15

QA TECHNIC – ATTESTATION OF CONFORMITY

Rievtech Electronic Co.,Ltd.

Room 505，Building A,No.88,Dazhou Road,Tiexinqiao,Yuhuatai District,Nanjing City,Jiangsu Province,P.R.China

Product (s)	: Programmable Logic Controller
Product Commercial Brand	: RIEVTECH
Product Type(s) / Model (s)	: PR-18AC Series , PR-18DC Series ,PR-12AC Series, PR-12DC Series
Applicable EC Directive (s)	: 2015/863 2011/65/EU
Applicable Harmonized Standard(s)/	: IEC 62321-5:2013, IEC 62321-4:2013, IEC 62321:2008, IEC 62321-6:2015, EN 14372:2004
Test Report(s) and Date(s)	: QA Testing Technology Co.,Ltd QA20150917ROHS; 17.09.2015

The Present certificate is valid just for the analysed product design. The certificate shall lose its validity in case of any changes in the product.

The CE mark as shown below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

Certificate Issue Date: 30.10.2015

CE

Begüm ADAKAN
Overseas Operation Manager

ALBERK QA ULUSLARARASI TEKNİK KONTROL VE BELGELENDİRME A.Ş.
BARBAROS MAH. AK ZAMBAK SOK.
A BLOK KAT:19 No:2 ATAŞEHİR
İSTANBUL / TÜRKİYE
Tel : 0216 572 49 10-11-12
Fax : 0216 572 49 14
www.qatechnic.com

SGS

Certificate CN14/21292

Rievtech Electronic Co., Ltd.

Room 505, Building A, No. 88, Dazhou Road, Tiexinqiao, Yuhuatai District, Nanjing City, Jiangsu Province, P.R. China

Organization Code 66067564-4

has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities

Design and assembly of (PLC) Programmable Logic Controllers

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization

This certificate is valid from 14 July 2015 until 27 July 2017 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 15 July 2017
Issue 2, Certified since 28 July 2014

Authorised by

SGS United Kingdom Ltd Systems & Services Certification Rossmoor Business Park Ellesmere Port Cheshire CH65 3EN UK
t +44 (0)151 350 6666 f +44 (0)151 350 6600 www.sgs.com
The certification information can be verified on the web site of Certification and Accreditation Administration of the People's Republic of China www.cnca.gov.cn

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Rievtech Electronic Co.,Ltd.

Room 505，Building A,No.88,Dazhou Road,Tiexinqiao,Yuhuatai District,Nanjing City,Jiangsu Province,P.R.China

Product (s)	: Programmable Logic Controller Communication Cable
Product Type(s) / Model (s)	: Programmable Logic Controller PR-24AC-R;PR-24DC-DA-R;PR-24DC-DAI-RTA;PR-22DC-DA-R-N PR-18DC-DA-RT;PR-14DC-DA-R;PR-14AC-R; PR-E-16AC-R;PR-E-16DC-DA-R;PR-E-16DC-DA-TN; PR-E-AI-I;PR-E-PT100;PR-E-AQ-VI;PR-RS485; PR-6AC-R; PR-6DC-DA-R; EXM-12DC-DA-R-HMI; EXM-12DC-DAI-R-HMI; EXM-12DC-DA-R-N-HMI; EXM-12DC-DA-R-VN-HMI;EXM-8AC-R-HMI; EXM-8DC-PT100-R-HMI; EXM-12DC-DA-RT-GWIFI-HMI; EXM-12DC-DA-RT-WIFI; EXM-12DC-DA-R-4G; EXM-12DC-DAI-R-4G; EXM-8DC-PT100-R-4G Communication Cable RS232 CABLE;USB CABLE;PRO-RS485
Applicable EC Directive (s)	: 2005/618/EC ROHS
Standard (s)	: IEC 62321-5:2013, IEC 62321-4:2013, IEC 62321:2008, IEC 62321-6:2015, EN 14372:2004
Test Report(s) and Date(s)	: QA Testing Technology Co., Ltd QA2016062901/ROHS, 29.06.2016

The Present certificate is valid just for the analysed product design. The certificate shall lose its validity in case of any changes in the product.

The CE mark as shown below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

CE

Certificate Issue Date: 11.08.2016

Begüm ADAKAN
Overseas Operation Manager

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BARBAROS MAH. AK ZAMBAK SOK.
A BLOK KAT.19 No:2 ATAŞEHİR
İSTANBUL / TÜRKİYE
Tel : 0216 572 49 10-11-12
Fax : 0216 572 49 14
www.qatechnic.com

THANKS

FOR YOUR ATTENTION

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