

Are you ready for

INDUSTRY 4.0



Slovak Republic

T-Industry, s.r.o.

T-Industry, s.r.o. was founded in 2003 and it is the private Slovak company. It operates in two offices – Myjava (Slovakia) and Bratislava (Slovakia). The company is focusing in different civilian industries and special shooting training systems. The business started with own research and development activities where it is possible to offer ready-made solutions as well as fully customized technologies based on special requirements of the final end-user. The team is formed by different engineers with experience in mechanical engineering, hardware development, communication technologies, software engineering and other technicians. The company can offer experience in these topics:

- Telemetry solutions (industrial measurements & communication)
- Smart city – smart energy platform (technologies for smart grid)
- Smart metering (PLC communication, IoT, DATA concentrators)
- IoT gateways, IoT solutions (ready made solutions, research and development)
- Smart street-lighting solutions (Apollo solution)
- Customer development, cooperation on research and innovation projects

This marketing material tries to offer a view on our Industry 4.0 solutions based on Advance IO modules. Looking forward to collaborating with you!



Slovak Republic



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Concentrator of the measuring system - KMS



Communication interfaces in basic configuration:

2x 10/100 MBit Ethernet
1x RS485
1x RS485
4x relay output 2A
4x optoinput (max 24V)

Possibility to extend up to 4 modules:

Module of USB connectivity
Modul of 3G connectivity
Combined GPS / WiFi connection module
other modules based on requirements

Protocols support:

Modbus/RTU master and slave, Modbus/TCP master and slave, OneWire controller, OPC klient, SNMP Manager
IEC-60870-5-101 controlling station and controlled station, IEC-60870-5-104 controlling station and controlled station,
LonWorks, QERP408/416, EAG3, TG800 central station, ELGAS ELCOR / miniELCOR / microELCOR, Romet ECS, SQL

Software support:

Integrated data acquisition framework (OpenDAF), Integrated web-based HMI (uHMI),
Software extensions to customer requirements



Compact communication RTU OpenBox III

Communication interfaces:

2x 10/100 MBit Ethernet
4x RS232
1x RS485
1x OneWire
1x opto-input
1x relay output 30VDC/1A, 125VAC/0.3A
1X GSM modem (optional)

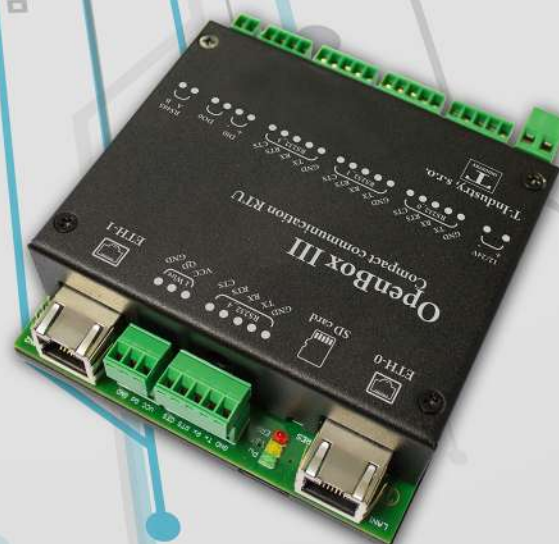
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Compact single-box design with DIN mount



The new brand of the innovative modules **AdvancedIO** are ready-made devices intended for Industry 4.0 applications. They are suitable for integration in the older as well as the new industrial and manufacturing technologies. They ensure an acquisition of the measured values (converted to an electric quantity representing a real physical state) and they are providing data to apply the principles of Industry 4.0 – “CPS – Cyber-physicalsystems” or M2M control – “M2M - Machine-to-Machine”

AdvancedIO - Binary



- 8x REL output 5A/230VAC
- 14x digital input
- 7x transistor output
- Ethernet 10/100
- RS485 - isolated

AdvancedIO - RFID+REL

- RFID reader (ISO 125 kHz)
- possibility connect external MiFare reader
- 2x REL output 16A/230VAC
- graphic display
- WiFi
- Ethernet 10/100
- isolated RS485



AdvancedIO - Analog + REL

- 4x optoisolated input
- 4x REL output 5A/230VAC
- 8x analog input 0-20mA
- 1x RS232 (for external sensors)
- graphic display
- WiFi
- Ethernet 10/100
- RS485 - isolated



AdvancedIO - Phase



- built-in 3phase electrical meter
- independent control of the output power phases
- 4x REL 5A/230 VAC
- graphic display
- WiFi
- Ethernet 10/100
- isolated RS485

AdvancedIO - Vibro

- 2x MEAS (vibration sensors)
- 2x temperature sensors
- 2x REL output 5A/230VAC
- graphic display
- WiFi
- Ethernet 10/100
- isolated RS485



AdvancedIO - Imp, Loop, Max



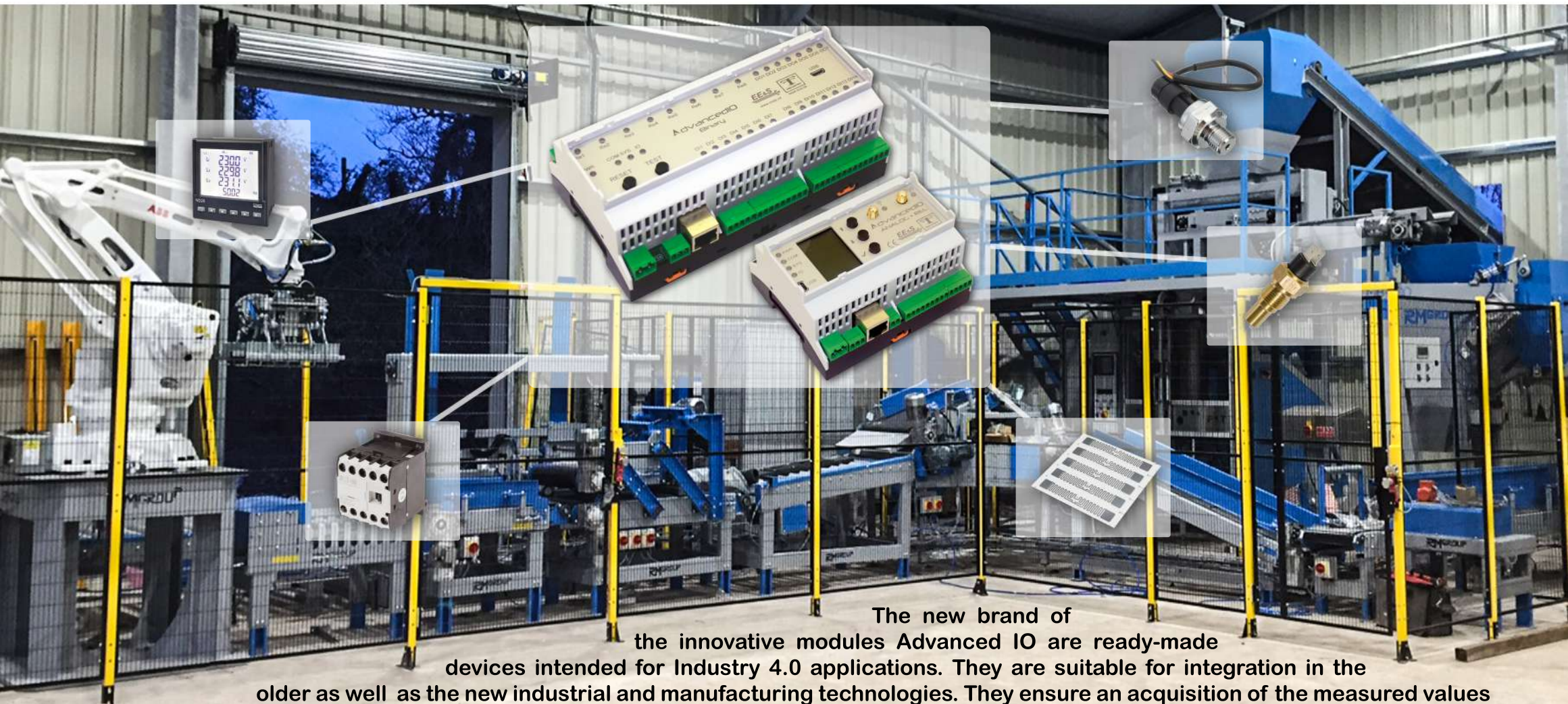
- 2x impulse or 0-20mA inputs
- 2x relay outputs (not for Loop version)
- ModBUS interface
- Ethernet 10/100 or RS485 - isolated

AdvancedIO - Custom modules

T-Industry, s.r.o. as a developer and manufacturer can offer preparation of fully customized Advanced IO module. All requirements – different type, range and number of inputs/outputs and different possibility of communication can be implemented.

AdvancedIO

modules for INDUSTRY 4.0



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Certificates and awards



certificate
of competence to carry out
research and development



awards from the exhibition Innovation of the Year



awards from the exhibition Amper 2012, 2014, 2017

Patents



- ▶ Compact telemetry unit
- ▶ The system and method of processing telemetry data, particular from consumption meters
- ▶ System and method of universal acquisition and / or processing of information
- ▶ Modular variable converter of analog and / or digital variables

References - countries of our customers



England



USA



Poland



Bulgaria



Russia



Romania



Czechia



Turkey



Austria



Spain



Israel



France



Italy



Germany



Hungary



Lebanon



United Arab Emirates



Malaysia



Slovakia

Exhibitions

Czechia - Mezinárodní veletrh elektrotechniky, elektroniky, automatizace a komunikace 2012

Germany - Electric Automation-Systems & Components SPS IPC DRIVES 2013

Czechia - Mezinárodní veletrh elektrotechniky, elektroniky, automatizace a komunikace, osvětlení a zabezpečení 2014

Slovakia - ELOSYS 2014

Czechia - Mezinárodní strojírenský veletrh 2014

Poland - AUTOMATICON 2014 Warszawa 2014

USA - Automation technology Expo East New York 2014

Russia - Interlight Moscow 2017

Czechia - Mezinárodní veletrh elektrotechniky, elektroniky, automatizace a komunikace, osvětlení a zabezpečení 2017