Product overview

Automating Your Success®

custom systems, building automation systems, programmable controllers, electronics for industrial automation

www.amitomation.com
### Small Compact Control Systems
- freely programmable
- ideal value-for-money
- small, easy to install
- integrated display and keys
- easily expandable with remote I/O
- supports standard communication interfaces
- integrated web server
- optional range of operating temperatures from -20 °C to 50 °C

### Compact Control Systems
- freely programmable
- fixed I/O configuration
- high interference resistance
- easily expandable with remote I/O
- version with integrated display and keyboard
- expansion modules of analogue outputs and communication interfaces
- version with temperature range from -20 °C to 70 °C

### Modular Control System
- modular design
- application-based I/O optimisation
- wide range of input/output modules
- specialised modules
- extensive communication abilities
- version with temperature range from -40 °C to 70 °C
- CPU – RS232, RS485, Ethernet, SD card
- integrated web server

### I/O and communication modules

<table>
<thead>
<tr>
<th>Type</th>
<th>Display</th>
<th>Keys</th>
<th>Interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-PDO8, AD-DO16</td>
<td>24 V digital outputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD-RDO5S</td>
<td>relay outputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD-AI5, AD-AI8, AD-GAi8, AD-FAi8</td>
<td>analogue inputs 0-5 V, 0-10 V, 0-20 mA</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>AD-NI8</td>
<td>analogue inputs</td>
<td>Ni1000, Pt1000</td>
<td></td>
</tr>
<tr>
<td>AD-AO8U, AD-AO8I, AD-GAO4U, AD-GAO4I</td>
<td>analogue outputs 0-10 V, 0-20 mA</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>AD-TM2</td>
<td>strain gauge bridges connection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD-UART, AD-UART4</td>
<td>RS232, RS485 communication modules</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD-CAN</td>
<td>CAN (CANopen) communication module</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADC-CAN</td>
<td>CPU extension for I/O signals through the CAN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD-ETH100</td>
<td>Ethernet communication interface</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Industrial HMIs and Operator Panels
- text and graphic HMIs
- LCD and VFD displays
- graphic HMIs with touch screen
- membrane keyboard with IP55 protection rating
- supports Latin character sets (including Czech/Slovak diacritics) and Cyrillic
- version for extreme operating environments
- selected types of HMIs also act as control systems without direct I/Os
- version with temperature range from -40 °C to 70 °C
- panel PC for Windows / Linux / TouchDet
Remote I/O modules **DMM-xx** series support **MODBUS RTU** communication protocol.

<table>
<thead>
<tr>
<th>AMR-CUTx/B</th>
<th>Specification</th>
<th>Inputs/outputs</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>monochromatic touchscreen, 1× RS485, 24 V DC</td>
<td>built-in temp. sensor, 2× RTD, 2× DO, 1× AO</td>
<td>control unit with display</td>
</tr>
<tr>
<td>AMR-RTV10</td>
<td>1× RS485, 230 V AC</td>
<td>6× RTD, 1× relay contact, 6× normally opened relay</td>
<td>heating source and heating zones controller</td>
</tr>
<tr>
<td>AMR-RTV20</td>
<td>1× RS485, 24 V DC</td>
<td>6× RTD, 2× Al, 8× relay (4× hand-operated)</td>
<td>heating source and heating zones controller</td>
</tr>
<tr>
<td>AMR-IRC10</td>
<td>2× RS485, 24 V DC</td>
<td>1× Al, 4× AO, 1× Di contact, 2× DO 24 V</td>
<td>individual room controller</td>
</tr>
<tr>
<td>AMR-IRC20</td>
<td>2× RS485, 230 V AC</td>
<td>2× Al, 2× RTD, 3× AO, 2× RDO</td>
<td>individual room controller</td>
</tr>
<tr>
<td>AMR-FCT10</td>
<td>2× RS485, 230 V AC</td>
<td>3× normally opened relay, 2× DO 24/230 V, 2× RTD</td>
<td>Fan Coil unit controller</td>
</tr>
<tr>
<td>AMR-UI2RD02</td>
<td>1× RS485, 24 V DC</td>
<td>2× RTD, 2× normally opened relay</td>
<td>flush mounted module / 35 mm DIN rail</td>
</tr>
<tr>
<td>AMR-CP2x</td>
<td>2× Ethernet, 1× RS485, 1× RS232 GSM (SMS), Poseidon, 230 V AC</td>
<td>-</td>
<td>communication control centre, web server</td>
</tr>
<tr>
<td>AMR-CP4x</td>
<td>2× Ethernet, 1× RS485, 1× RS232, GSM (SMS), Poseidon, SD card, 24 V DC</td>
<td>-</td>
<td>communication control centre, web server</td>
</tr>
</tbody>
</table>

**Freeely Programmable Controllers**
- one way of programming for all types in DetStudio environment by EsiDet editor
- controllers with integrated graphic touch screen display
- Ethernet with MODBUS TCP/IP or DB-Net/IP protocol
- RS485 with MODBUS RTU, ARION protocol, DB-Net
- suitable for distributed systems with local intelligence
- turn-key applications on demand

**Room Units and Controllers**
- controllers for control systems and programmable controllers
- temperature and CO2 measurements
- option to use time-schedules
- suitable for distributed systems with local intelligence
- turn-key applications on demand

**Industrial Communication**
- industrial communication converters
- converters for integrations to the ARION and MODBUS network
- GSM modems
- industrial Ethernet switches
- freely parameter-adjustable web server
Development and Debugging Tools for User Applications

**DetStudio**
- User-friendly tools for developing control system applications
- One-way of programming for all types of control systems
- Programming, S7/LD/IL
- On-line tracking and editing of technological variables
- Design environment and training for free
- User-friendly VISTA editor of user screens
- Simulator of operator panels and control panels
- Support of multi-lingual applications, Unicode support
- Management of language-specific application versions
- Czech and English menu
- Free environment development and training

**AWDet**
- User-friendly tools for creating a web presentation of control system data
- Full set of pre-defined components to create web pages
- Wide range of component property settings
- Import of variables and communication parameters from DetStudio projects
- Parameter-adjusted e-mailing based on the values of variables
- Archiving variables on SD cards
- Remote administration of web server, recording application via FTP

**LookDet**
- Supervisory system based on SCADA
- Collection, administration, archiving and displaying of data from control systems and measuring devices
- Access from client's visualisation stations to the server via standard web browsers
- Number of clients limited only by the performance of the server and the quality of its connectivity
- Strict use of authorised standard technologies which are absolutely common in the IT environment
- Simple and clear licensing policy
- Support of remote communication with control systems within the DB-Net/IP network

**ViewDet**
- Service tool for application debugging and simple visualisation
- Reading and editing of database variables of control systems
- Archiving, graphs, exporting archived data of control systems
- Processing control system journal
- Downloading user application
- Support of remote communication with control systems within the DB-Net/IP network

**DetStudio**
- MODBUS / ARION (RS485)
- CANopen (CAN)
- M-Bus OpenTherm
- Internet Supervisory stations (SCADA)
- Remote Users
- Maintenance workers
- Users

**LookDet**
- Local SCADA
- Local operator
- 3rd party M-Bus
- OpenTherm
- CANopen (CAM)
- ARION (RS485)
- MODBUS (RS485)
- Wireless system Poseidon

**AWDet**
- DM-xx
- DM-MPBUS
- AMR-UI2RDO2
- AMR-RTV20
- AMR-OP71
- AMR-FCT10
- AMR-OP84
- AWDet systems within the DB-Net/IP network

**ViewDet**
- Parameters from DetStudio projects
- Reading and editing of database variables on SD cards
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