



# Operator and control HMIs

- text and graphic HMIs
- direct connection to AMiT control systems
- built-in design with up to IP65 cover protection
- all types support special and Cyrillic character sets
- graphic panels supporting custom fonts in various languages
- control HMIs can be used as freely programmable control systems
- programmable in DetStudio
- HMI simulator and debugging tool in DetStudio
- versions with extended range of operating temperature (-40 °C to 70 °C)



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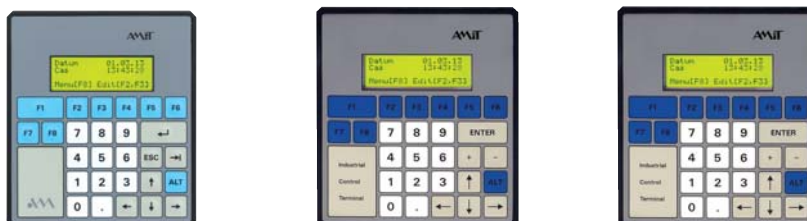
[amitautomation.com](http://amitautomation.com)

## Graphic control HMIs



|                         | AMR-OP10  | AMR-OP84   | AMR-OP87(G)  | AMR-OP87/Pxx   |
|-------------------------|---|--|--|--|
| Display                 | FSTN graphic, 3", mono-chromatic, (132 × 64) pixels | TFT graphic, 4.3", 65k colours, (480 × 272) pixels | TFT graphic, 7", 65,536 colours, (800 × 480) pixels    | TFT graphic, 7", 65,536 colours, (800 × 480) pixels        |
| Visible area            | (58 × 38) mm  | (95.0 × 53.9) mm                                   | (152.4 × 91.4) mm                                      | (152.4 × 91.4) mm  |
| Touch panel             | Yes   | Yes  | Yes  | Yes  |
| Keyboard                | No  | No   | No   | No   |
| Interface               | 1× Ethernet, 1× RS485 with GI, 1× RS485             | 1× Ethernet, 1× RS485 with GI, 1× RS485, SD card   | 1× Ethernet, 1× RS485 with GI, 1× RS485, SD card (SMS) | 1× Ethernet, 1× RS485, 1× Poseidon 868 MHz with (AW-P868A) |
| Inputs/outputs          | 1× RTD, AMRIO or AMR-xx series extension            | with AMRIO or AMR-xx series extension              | with AMRIO or AMR-xx series extension                  | with AMRIO or AMR-xx series extension                      |
| Web server              | Yes   | Yes  | Yes  | Yes  |
| Ingress protection rate | IP65 – front / IP20 – end                           | IP65 – front / IP20 – end                          | IP65 – front / IP20 – end                              | IP20   |
| Power supply            | 24 V DC ±20 %                                       | 24 V DC/AC ±20 %                                   | 24 V DC/AC ±20 %                                       | 24 V DC/AC ±20 %   |
| Consumption             | Max. 0.07 A   | Max. 0.15 A  | Max. 0.18 A  | Max. 0.15 A  |
| Operating temperature   | -10 °C to 50 °C                                     | -20 °C to 70 °C                                    | -20 °C to 70 °C  | -20 °C to 70 °C  |
| Dimensions (w × h × d)  | (116 × 96 × 48) mm                                  | (166 × 96 × 44) mm                                 | (220 × 130 × 46) mm                                    | (194 × 124 × 33) mm  |
| Programming             | DetStudio / EsiDet                                  | DetStudio / EsiDet                                 | DetStudio / EsiDet                                     | DetStudio / EsiDet   |

## Text HMIs



|  | ART400W3   | APT130                               | APT1000G                         |
|--|--|--------------------------------------|----------------------------------|
| Display  | LCD backlit, (4 × 20) characters   | LCD backlit, (4 × 20) characters     | LCD backlit, (4 × 20) characters |
| Visible area                                       | (76 × 25) mm   | (76 × 25) mm                         | (76 × 25) mm                     |
| Character height                                   | 4 mm   | 4 mm                                 | 4 mm                             |
| Keyboard   | Membrane, 27 keys  | Membrane, 27 keys                    | Membrane, 27 keys                |
| Interface  | 1× Ethernet, 1× RS232, 1× RS485 with GI, 1× CAN (optional), SD card      | Parallel                             | 1× RS232, 1× RS422/485 with GI   |
| Inputs/outputs                                     | 8× DI (24 V DC), 8× DO (24 V DC), 8× AI (U / I / RTD), 2× AO (0 to 10 V) | –                                    | –                                |
| Web server   | Yes  | No                                   | No                               |
| Ingress protection rate – front panel / rear cover | IP55 / IP20  | IP55 / IP20                          | IP55 / IP20                      |
| Power supply                                       | 24 V DC ±20 %  | 5 V DC ±10 % from the control system | 24 V DC ±20 %                    |
| Consumption  | Max. 0.25 A  | Max. 0.3 A at 5V DC                  | Max. 0.2 A                       |
| Operating temperature                              | -20 °C to 60 °C  | 0 °C to 50 °C                        | 0 °C to 50 °C                    |
| Extended temperature range                         | –  | –                                    | -40 °C to 70 °C (APT1000GF/I)    |
| Dimensions (w × h × d)                             | (146 × 166 × 87) mm  | (146 × 166 × 52) mm                  | (146 × 166 × 52) mm              |
| Programming  | DetStudio  | ESC sequence                         | ESC sequence                     |



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