

# Compact control systems

- freely programmable in DetStudio
- unified programming
- outstanding price-performance ratio
- compact design, preset I/O configuration
- easily extendable with external I/O (AMRIO)
- integrated display and keyboard (in certain types)
- Ethernet, RS485 and RS232 interfaces
- built-in freely parametrisable web server
- extended range of operating temperature (-20 °C to 70 °C)



AMiT, spol. s r.o.  
Videňská 118,  
619 00 Brno, CZ  
phone: +420 549 210 403  
e-mail: amit@amitautomation.com

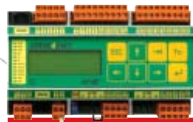
Headquarters:  
Radlická 740/113c,  
158 00 Prague, CZ  
phone: +420 222 781 516

Technical support:  
phone: +420 549 210 276  
e-mail: support@amitautomation.com

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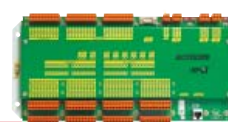
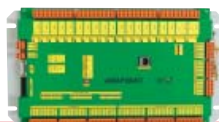
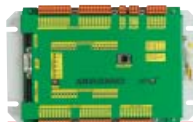
[amitautomation.com](http://amitautomation.com)

## Small control systems



	<b>AMiNi4(D)W2(G)</b>	<b>AMiNi5D</b>	<b>AMR-CP4x/DM</b>
Digital inputs	8× 24 V DC	8× 24 V DC/AC	–
Analogue inputs	8× 0 to 5 V / 0 to 10 V / 0 to 20 mA / RTD	8× 0 to 5 V / 0 to 10 V / 0 to 20 mA / RTD / NTC	–
Digital outputs	8× 24 V DC / 0.3 A	8× 24 V DC / 0.3 A	–
Analogue outputs	4× 0 to 10 V	4× 0 to 10 V	–
Interface	1× RS485 with GI, 1× Ethernet, 1× RS232 (AMiNi4xW2) or SMS (AMiNi4xW2/G)	1× RS485 with GI, 1× Ethernet, 1× RS232	1× RS485 with GI, 1× RS232, 1× Ethernet (2× RJ45, switch) optionally GSM and Poseidon 868 MHz
Display, keyboard	LCD (122 × 32) pixels, 8 buttons AMiNi4DW2(G)	TFT ISP (320 × 240) pixels, 8 buttons	–
Flash / RAM / EEPROM	256 KB + 2 MB / 1 MB / 2 KB	2 MB + 16 MB / 1 MB + 16 MB / 32 KB	2 MB + 4 MB / 33 MB / 32 KB
RTC + RAM back-up	Yes	Yes	Yes
Web server	Yes	Yes	Yes
SD card	Yes	Yes	Yes
Power supply	24 V DC ±20 %	24 V DC ±20 %	24 V DC ±20 %
Consumption (without outputs)	Max. 0.2 A	Max. 0.12 A	Max. 0.26 A
Signal connection	WAGO CAGE CLAMP connectors	WAGO CAGE CLAMP connectors	WAGO CAGE CLAMP connectors
Ingress protection rate	IP20	IP20	IP20
Operating temperature	0 °C to 50 °C	-20 °C to 70 °C	-20 °C to 70 °C
Mounting	On a 35 mm DIN rail	On a 35 mm DIN rail	On a 35 mm DIN rail
Dimensions (w × h × d)	(160 × 98 × 74) mm	(160 × 100 × 62) mm	(106 × 100 × 62) mm

## Compact control systems



	<b>AMiRiS99W3</b>	<b>AMAP99W3</b>	<b>ACOS200</b>
Digital inputs	16× 24 V DC	24× 24 V DC	32× 24 V DC
Analogue inputs	8× 0 to 5 V / 0 to 10 V / 0 to 20 mA / RTD	15× 0 to 5 V / 0 to 10 V / 0 to 20 mA / RTD	16× 0 to 10 V / 0 to 20 mA / RTD
Digital outputs	16× 24 V / 0.5 A DC	4× 24 V / 0.5 A DC, 19× relay 230 V / 6 A AC	32× 24 V / 0.3 A DC
Analogue outputs	Max. 4× 0 to 10 V (module AM-AO2U), 0 to 20 mA (module AM-AO2I)	Max. 6× 0 to 10 V (module AM-AO2U), 0 to 20 mA (module AM-AO2I)	8× 0 to 10 V
Interface	1× RS232, 1× Ethernet	1× RS232, 1× Ethernet	1× RS485 with GI, 1× RS232 with GI, 1× Ethernet
Optional interface	Max. 1× RS485 (AM-RS485), RS232 (AM-RS232), CAN (AM-CAN) or M-Bus (AM-MBUS)		Max. 2× RS485 (CM-RS485), RS232 (CM-RS232) or CAN (CM-CAN)
Flash / RAM / EEPROM	256 KB + 2 MB / 1 MB / 32 KB	256 KB + 2 MB / 1 MB / 32 KB	2 MB + 4 MB / 1 MB / 32 KB
RTC + RAM back-up	Yes	Yes	Yes
Web server	Yes	Yes	Yes
SD card	Yes	Yes	Yes
Power supply	24 V DC ±20 %	24 V DC ±20 %	24 V DC ±20 %
Consumption (without outputs)	Max. 0.4 A	Max. 0.4 A	Max. 0.22 A
Signal connection	WAGO CAGE CLAMP connectors	WAGO CAGE CLAMP connectors	WAGO CAGE CLAMP connectors
Ingress protection rate	IP20	IP20	IP20
Operating temperature	-40 °C to 70 °C	-40 °C to 65 °C	-40 °C to 70 °C
Mounting	On switchboard baseplate	On switchboard baseplate	On switchboard baseplate
Dimensions (w × h × d)	(316 × 193 × 50) mm	(423 × 230 × 50) mm	(395 × 187 × 44) mm



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