

Quick Selection Guide für die Erfassung von Messdaten (extern angeschlossen) / *for the acquisition of measuring data (externally connected)*

Technical Data/ Meas.- System	USB-AD16f	AMS42-USB	AMS84-USB	USB-AD12f	USB-AD	meM-AD10	USB-PIO	meM-PIO-OEM	meM-INC	meM-LOG-SE	IM-AD25a	IM3250T	AMS42-LAN	AMS84-LAN	ePCI-LOG
Schnittstelle/Interface	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB, RS232	LAN (TCP/IP)	LAN (TCP/IP)	LAN (TCP/IP)	LAN (TCP/IP)	PC/104, RS232, CAN
Analogeingänge/Analog inputs	16	8	16	16	16	16	-	-	-	16	16	32	8	16	16
Messbereich/Measuring range	±1V, ±2V, ±5V, ±10V	modul-abhängig/ depends on the module	modul-abhängig/ depends on the module	±10V	±5V	±5V	-	-	-	±5V	±5V, ±10V	±5V	modul-abhängig/ depends on the module	modul-abhängig/ depends on the module	±1V, ±2V, ±5V, ±10V
Auflösung/Resolution	16 Bit	16 Bit	16 Bit	12 Bit	12 Bit	12 Bit	-	-	-	12 Bit	16 Bit (±5V:15 Bit)	16 Bit (±5V:15 Bit)	16 Bit (±5V:15 Bit)	16 Bit (±5V:15 Bit)	16 Bit
Abtastrate/Sampling rate	250kHz	250kHz	250kHz	20kHz, "d2d"	*)	10kHz, "d2d"	-	-	-	100Hz/ Kanal/ channel	25kHz, "d2d"	25kHz, "d2d"	25kHz, "d2d"	25kHz, "d2d"	10µs Wandler/ converter
Analogausgänge/Analog outputs	2	2	2	1	1	1	-	-	-	-	-	-	-	-	2
Ausgangsbereich/Output range	±10V	±10V	±10V	±5V	±5V	±5V	-	-	-	-	-	-	-	-	±5V, ±10V
Auflösung/Resolution	16 Bit	16 Bit	16 Bit	12 Bit	12 Bit	12 Bit	-	-	-	-	-	-	-	-	12 Bit
Ausgaberate/Output rate	*)	*)	*)	*)	*)	*)	-	-	-	-	-	-	-	-	*)
Digitaleingänge/Digital inputs	4 (TTL)	4 (TTL)	4 (TTL)	4 (CMOS)	4 (TTL)	8 Optok.	24 (TTL)	24 (TTL)	3 (galv. getrennt/ electr. isol.)	2 (TTL)	-	-	-	-	-
Digitalausgänge/Digital outputs	4 (TTL)	4 (TTL)	4 (TTL)	4 (CMOS)	4 (TTL)	8 Relais				-	4 (TTL)	-	4 (TTL)	-	4 (TTL)
Zähler/Counter	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Empfindlichkeit/Sensitivity	-	-	-	-	-	-	-	-	5..30V	-	-	-	-	-	-
NextView® Pro (DOS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NextView®4 Lite	+	+	+	+	+	+	+	+	+	-	+	+	+	+	-
NextView®4 Pro	+	+	+	+	+	+	+	+	+	-	+	+	+	+	-
NextView®4 Client/Server	+	+	+	+	+	+	+	+	+	-	+	+	+	+	-
LabVIEW™	+	+	+	+	+	+	+	+	+	-	+	+	+	+	-
ActiveX Control	+	+	+	+	+	+	+	+	+	-	+	+	+	+	-
MS-DOS Programmierung/ MS-DOS programming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
Preis in EURO/Price in EURO	449.00	899.00	1199.00	149.00	100.00	299.00	49.58	59.00	349.00	599.00	999.00	3499.00	1299.00	1599.00	2499.00
Preis incl. 19% MwSt./Price incl. 19% VAT	534.31	1069.81	1426.81	177.31	119.00	355.81	59.00	70.21	415.31	712.81	1188.81	4163.81	1545.81	1902.81	2973.81

"d2d" = direct to disk

\*) Rechner abhängig/depending on the PC

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Technical Data/ Meas. System	PCIe-BASE	PCI-BASEII	PCI-PIO	PC104-AD16	PC104-PIO48
Schnittstelle/Interface	PCIe	PCI	PCI	PC104	PC104
Analogeingänge/Analog inputs	modul- abhängig/ depends on the module	modul- abhängig/ depends on the module	-	16	-
Messbereich/Measuring range			-	±1V, ±2V, ±5V, ±10V	-
Auflösung/Resolution			-	16 Bit	-
Abtastrate/Sampling rate	max. 1MHz, "d2d"	max. 1MHz, "d2d"	-	10µs Wandler/ converter	-
Analogausgänge/Analog outputs	modul- abhängig/ depends on the module	modul- abhängig/ depends on the module	-	2	-
Ausgangsbereich/Output range			-	±5V, ±10V	-
Auflösung/Resolution			-	12 Bit	-
Ausgaberate/Output rate			-	*)	-
Digitaleingänge/Digital inputs	32 (TTL)	32 (TTL)	32 (TTL)	32 (TTL)	48 (TTL)
Digitalausgänge/Digital outputs					
NextView® Pro (DOS)	-	-	-	-	-
ScopeView (DOS)	-	-	-	-	-
NextView®4 Lite	+	+	+	+	+
NextView®4 Pro	+	+	+	+	+
NextView®4 Client/Server	+	+	+	+	+
LabVIEW™	+	+	+	+	+
ActiveX Control	+	+	+	+	+
MS-DOS Programmierung/ MS-DOS programming	-	-	-	+	+
Preis in EURO/Price in EURO	249.00	149.00	89.00	399.00	99.00
Preis incl. 19% MwSt./Price incl. 19%VAT	296.31	177.31	105.91	474.81	117.81

"d2d" = direct to disk \*) Rechner abhängig, depending on the PC

Technical Data/ Module	MAD 12a	MAD 16b	MAD 16f	MDA 12	MDA 16-21	MDA 16-41	MDA 16-81	MCAN
Analogeingänge/Analog inputs	16	16	16	-	-	-	-	
Messbereich/Measuring range	±1V, ±2V, ±5V, ±10V	±1V, ±2V, ±5V, ±10V	±1V, ±2V, ±5V, ±10V	-	-	-	-	
Auflösung/Resolution	12 Bit	16 Bit	16 Bit	-	-	-	-	
Abtastrate/Sampling rate	100kHz	100kHz	500kHz (je Modul/ each module)	-	-	-	-	
Analogausgänge/Analog outputs	-	-	-	2	2 (isol.***)	4 (isol.***)	8 (isol.***)	
Ausgangsbereich/Output range	-	-	-	±5V, ±10V	±10V	±10V	±10V	
Auflösung/Resolution	-	-	-	12 Bit	16 Bit	16 Bit	16 Bit	
Abtastrate/Sampling rate	-	-	-	*)	*)	*)	*)	
Digitaleingänge/Digital inputs	-	-	-	-	-	-	-	
Digitalausgänge/Digital outputs	-	-	-	-	-	-	-	
<b>Synchrone Erfassung von analogen und CAN Daten! Synchronous acquisition of analog and CAN data!</b>								
Preis in EURO/Price in EURO	149.00	249.00	349.00	149.00	199.00	349.00	499.00	249.00
Preis incl. 19% MwSt./Price incl. 19%VAT	177.31	296.31	415.31	177.31	236.81	415.31	593.81	296.31

\*\*\*) galvanisch getrennt zur PC Masse/electr. isolated to the PC ground

Quick Selection Guide für 5B Verstärker / for 5B amplifiers

Technical Data/ Amplifier	MA-UNI	MA-U1	MA-U	MA-FU	MA-F1	MA-DF1	MA-IF	MA-P09	MA-P12	MA-P15
Galvanische Trennung/ Electrical isolation	+	+	+	+	+	+	-	-	-	-
Spannungsmessung DC/ measurement DC	Voltage ±0.5mV..±10V 10 MR	±5mV..±50V 9 MR	±0.5V..±10V 4 MR	100mV..60V (Empf./ sensitivity)	±1V..±50V 4 MR	±1V..±50V 4 MR	±1V..±15V (TTL/CMOS)	-	-	-
Spannungsmessung AC/ Voltage measurement AC	±0.5mV..±10V 10MR	±5mV..±50V 9 MR	±5V, ±10V	-	-	-	-	-	-	-
Strommessung DC/ Current measurement DC	±0.1..±200mA 8 MR	±1..±200mA 6 MR	-	-	±20mA, ±100mA	±20mA, ±100mA	-	-	-	-
Strommessung AC/ Current measurement AC	±0.1..±200mA 8 MR	±1..±200mA 6 MR	-	-	-	-	-	-	-	-
Widerstandsmessung/ measurement	Resistance 5..10000Ohm 8 MR	-	-	-	-	-	-	-	-	-
Potentiometermessung/ Potentiometer measurement	±0.5mV..±10V 8 MR	-	-	-	-	-	-	-	-	-
DMS Messbrücke/ gage measuring bridge	Strain ±1..±200mV/V 8 MR	-	-	-	-	-	-	-	-	-
Trägerfrequenz/ frequency	Carrier 0.05..1V/V 4 MR	-	-	-	-	-	-	-	-	-
Abgleichbar/Adjustable	3 Potis	2 Potis	2 Potis	4 Potis	4 Potis	4 Potis	-	-	-	-
Excitation (Spannungsausg.)/ Excitation (voltage output)	±2.5V; 0.1mA, 4mA	5V, ±12V, 4mA	5V, ±12V, 4mA	5V, ±12V, 4mA	5V, ±7.5V, 4mA	5V, ±12V, 4mA	-	5V, ±9V, 4mA	5V, ±12V, 4mA	5V, ±15V, 4mA
Frequenzeingang/ Frequency input	-	-	-	0..100kHz, 8 MR	-	-	1Hz..100kHz	-	-	-
Filter/ Filter	10Hz, 100Hz, 10kHz	10Hz, 100Hz, 10kHz	1Hz, 20Hz, 50kHz	1Hz, 10Hz, 1kHz	100Hz..10kHz (einstellbar/ adjustable)	100Hz..20kHz (einstellbar/ adjustable)	-	-	-	-
Verstärkerausgang/ Amplifier output	±5V	±5V	±5V	0..5V	±5V	±5V	TTL	-	-	-
Preis in EURO/Price in EURO	199.00	149.00	109.00	169.00	169.00	199.00	169.00	89.00	89.00	89.00
Preis incl. 19% MwSt./Price incl. 19%VAT	236.81	177.31	129.71	201.11	201.11	236.81	201.11	105.91	105.91	105.91

MR: Messbereich (measuring range)

Alle Verstärker liefern am Ausgang eine Spannung im Bereich von ±5V bzw. 0..5V.  
All amplifiers produce an output voltage between ±5V or 0V..5V.

Quick Selection Guide für Miniaturverstärker / for miniature amplifiers

Technical Data/ Amplifier	MAL-UI	MAL-PT100	MAL-R1K	MAL-SG5	MAL-SG2	MAL-THR	MAL-U2I	MAL-FI	MAL-FU	MAL-ISO50	MAL-ISO10	MAL-ISO5	MAL-ISO1	MAL-SEIKA
Galvanische Trennung/ Electrical isolation	-	-	-	-	-	-	-	-	+	+	+	+	+	-
Spannungsmessung DC/ measurement DC	Voltage ±1V, ±5V, ±10V	-	-	-	-	-	0.5V	±5V, ±10V	-	±50V	±10V	±5V	±1V	2 .. 2.5 .. 3V
Strommessung DC/ measurement DC	Current ±20mA	-	-	-	-	-	-	-	-	-	-	-	±20mA	-
Widerstandsmessung/ measurement	Resistance	-	-	0..1kOhm	-	-	-	-	-	-	-	-	-	-
Frequenzmessung/ measurement	Frequency	-	-	-	-	-	-	-	0..100Hz, 0..1kHz, 0..10kHz	-	-	-	-	-
DMS Messbrücke/ gage measuring bridge	Strain	-	-	±5mV/V	±2mV/V	-	-	-	-	-	-	-	-	-
Excitation (Spannungsausg.)/ (voltage output)	Excitation	-	1mA	1mA	5V	5V	-	-	5V oder 4mA	-	-	-	-	-
Thermoelement/Thermocouple		-	-	-	-	0..1250°C	-	-	-	-	-	-	-	-
PT100		-	0..300°C	-	-	-	-	-	-	-	-	-	-	-
Filter/Filter	160Hz	160Hz	160Hz	160Hz	160Hz	160Hz	160Hz	40Hz..16kHz (100Hz Vor- einstellung / presetting)	10Hz	160Hz	160Hz	160Hz	160Hz	160Hz
Bandbreite/Bandwidth	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	-	1Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Verstärkerausgang/ Amplifier output	±5V	0..5V	0..5V	±5V	±5V	0..5V	0..20mA	±5V	0..5V	±5V	±5V	±5V	±5V	±5V
Preis in EURO/Price in EURO	49.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00
Preis incl. 19% Mwst./Price incl. 19%VAT	58.31	94.01	94.01	94.01	94.01	94.01	94.01	94.01	94.01	94.01	94.01	94.01	94.01	94.01

MR: Messbereich (measuring range)

Alle Verstärker liefern am Ausgang eine Spannung im Bereich von ±5V bzw. 0..5V.

All amplifiers produce an output voltage between ±5V or 0..5V.

Quick Selection Guide für Trägerplatten und Verstärkersysteme / for backplanes and amplifier systems

Technical Data/ Backplane, Amplifier system	AP2	AP8	AMS42	AMS84	AAB-II	AAR-RAC	BP104	BP2	BP2-BOX	BP16	BP16-PC
Steckplätze/Slots	2x 5B	8x 5B	8x 5B	16x 5B	8x 5B	16x 5B	8x MAL	2x MAL	2x MAL	16x MAL	16x MAL
Versorgung/Supply	5V; 9-40V	5V; 9-40V	5V; 9-40V	5V; 9-40V	5V; 9-40V	9-30V	5V	9-40V	9-40V	9-40V; 5V	12V; 5V
Eingänge/ Inputs	Klemmen/ terminals	Klemmen/ terminals	beliebig/ user-defined	beliebig/ user-defined	Binderstecker/ Binder connectors	beliebig/ user-defined	20-pol. Stiftl./ pin connector	Klemmen/ terminals	Klemmen/ terminals	37-pol. Sub- D Buchse/ female	37-pol. Sub-D Buchse/ female
Ausgänge/ Outputs	Klemmen/ terminals	16-pol. Stiftl./ pin connector	37-pol. Sub-D Buchse/ female	37-pol. Sub-D Buchse/ female	37-pol. Sub-D Buchse/ female	37-pol. Sub-D Buchse/ female	16-pol. Stiftl./ pin connector	Klemmen/ terminals	Klemmen/ terminals	37-pol. Sub- D Buchse/ female	37-pol. Sub-D Buchse/ female
Überbrückung/ Override	-	8 Direktschal- ter/direct switches	-	-	7 Direktschal- ter/direct switches	-	-	-	-	16 jumpers	16 jumpers
Befestigung/Installation	Hutschiene/ DIN rail	Hutschiene/ DIN rail	Standalone	Standalone	Einbau in PC möglich/ PC mounting possible	Standalone	PC/104- System	Hutschiene/ DIN rail	Standalone	Standalone	Einbau in PC/ PC mounting
Gehäuse/Housing	-	-	1/2 x 19"- Rack	1/2 x 19"- Rack	5 1/4"-Gehäuse/ housing	19"- Rack	-	-	Kunststoffge- häuse (IP65)/ plastic case (IP65)	Aluminium- gehäuse/ aluminum housing	-
Preis in EURO/Price in EURO	79.00	279.00	499.00	799.00	399.00	799.00	99.00	59.00	79.00	199.00	199.00
Preis incl. 19% Mwst./Price incl. 19%VAT	94.01	332.01	593.81	950.81	474.81	950.81	117.81	70.21	94.01	236.81	236.81