

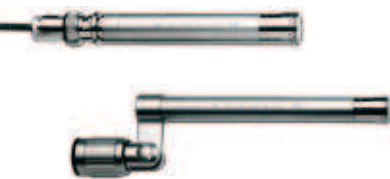
# PRODUCT CATALOG



## ACCESSORIES



Microphones — Accelerometers — Calibrators — Cables — Special Accessories



The accessories listed on the following pages do not represent our full range of supply, but rather the products most commonly demanded. We offer the full product range of the following manufacturers: Microtech Gefell, G.R.A.S. Sound & Vibration, Metra, PCB und Larson Davis.

## Measuring microphones

Order-No:	Type	Ø	B <sub>L</sub> mV/Pa	Frequency range	Up V	Preamplifier	Dynamic range dB(A)	Class	Typical application
800240.1	MI17	¼"	50	20 Hz...15 kHz	0	ICP integrated	34...125	2	industrial use, multi channel application
800239.5	M360	¼"	12.5	20 Hz...20 kHz	0	ICP integrated	35...130	1	industrial use, multi channel application
800403.4	M360H	¼"	12.5	20 Hz...20 kHz	0	ICP integrated	35...130	1	like M360, microphone holder included
800730.1	M365	¼"	12.5	20 Hz...12 kHz	0	ICP integrated	35...130	2	array application for AcoustiCam
800078.7	MK102.1	1"	50	10 Hz...18 kHz	200	MV203	11...146	1	sensitive sound level measuring
800226.6	MK103.1	1"	50	2 Hz...18 kHz	200	MV203	11...146	1	sensitive sound level measuring
800227.4	MK112	½"	50	5 Hz...8 kHz	200	MV203	11...146	1	sound level measuring in diffuse field
800228.4	MK202	½"	14	10 Hz...40 kHz	200	MV203, 302	22...158	1	general purpose
800229.0	MK221	½"	50	3.5 Hz...20 kHz	200	MV203, 302	15...146	1	general purpose
800230.5	MK222	½"	50	0.5 Hz...20 kHz	200	MV203, 302	15...146	1	general purpose / infrasound
800231.3	MK223	½"	50	3.5 Hz...20 kHz	200	MV203, 302	15...146	1	sound level measuring in diffuse field
800232.1	MK231	½"	50	3.5 Hz...8 kHz	200	MV203, 302	15...146	1	sound level measuring in diffuse field
800233.8	MK250	½"	50	3.5 Hz...20 kHz	0	MV204	20...140	1	general purpose
800234.6	MK301	¼"	5	5 Hz...100 kHz	200	MV203, 302	35...168	1	measuring of high level & frequency
800235.4	MK302	¼"	3	5 Hz...60 kHz	200	MV203, 302	39...172	1	measuring of high level & frequency
800236.2	MK290	½"	50	35 Hz...5 kHz	200	MV302	15...146	1	sound intensity probe (2 microphones)
800237.0	MK390	¼"	5	1 kHz...12 kHz	200	MV302	40...168	1	sound intensity probe (2 microphones)
800618.1	MM210	½"	50	3.5 Hz...20 kHz	0	MV210	20...135	1	ICP TEDs microphone SET with MK250
800329.1	40AE	½"	50	3.2 Hz...20 kHz	0	26CA	15...146	1	general purpose
800375.7	40AF	½"	50	3.2 Hz...20 kHz	200	26AK, 26AM	15...146	1	general purpose
800762.3	40BE	¼"	4	10 Hz...100 kHz	0	26CB	40...168	1	measuring of high level & frequency
800763.1	40BF	¼"	4	10 Kz...100 kHz	200	26AC	40...174	1	measuring of high level & frequency
800761.5	46AF	½"	50	3.2 Hz...20 kHz	0	26TK	15...146	1	ICP TEDs microphone SET with 40AE



## Microphone preamplifiers

Order-No:	Type	Ø	Up	Cable	Connector	Description
800077.0	MV203	½"	200 V	2 m	LEMO7	microphone preamplifier
800242.6	MV204	½"	0 V	2 m	LEMO7	microphone preamplifier
800243.4	MV205	½"	200 V	0.9 m	LEMO7	preamplifier for WME940
800244.2	MV302	¼"	200 V	3 m	LEMO7	microphone preamplifier
800245.0	MV210	½"	0 V	-	BNC	microphone preamplifier, ICP-supply
800728.7	MV220R	½"	0 V	-	XLR	digital RF-link, 110 dB dynamic, SET
800793.7	MV220D	½"	0 V	-	XLR	digital preamplifier AES3-output
800764.8	26AC	¼"	200 V	3 m	LEMO7	microphone preamplifier
800765.6	26CB	¼"	0 V	3 m	BNC	microphone preamplifier, ICP-supply
800376.5	26AK	½"	200 V	-	LEMO7	microphone preamplifier
800377.3	26AM	½"	200 V	3 m	LEMO7	microphone preamplifier
800330.6	26CA	½"	0 V	-	BNC	microphone preamplifier, ICP-supply

## Outdoor microphones

Order-No:	Type	B <sub>L</sub> mV/Pa	Up V	Dynamic range dB(A)	Class	Connector	Remote calibration	Application
800258.8	WME940	50	200	20 ... 146	1, PTB	LEMO6	yes	permanent use, 0°
800045.7	WME950	50	200	20 ... 146	1, PTB	LEMO7	no	permanent use, 0°
800353.1	WME952	50	0	20 ... 135	1, PTB	BNC	no	like WME950, ICP-supply, 0°
800570.1	WME960H	50	200	15 ... 146	1	LEMO6	yes	permanent use, 90°
800571.8	WME965H	50	200	15 ... 135	1	BNC	yes	like WME960, ICP-supply, 90°
800572.6	WME970H	50	200	15 ... 146	1	LEMO6	yes	like WME960, digital interface
800275.6	41AL-S	50	200	20 ... 148	0	LEMO7	no	permanent use, 90°
800276.4	41AL-1	50	200	20 ... 148	0	LEMO7	no	aircraft noise, 0°
800277.2	41AL-2	50	0	20 ... 148	0	LEMO7	no	permanent use, 90°
800278.0	41AL-6	50	0	20 ... 148	0	LEMO7	no	aircraft noise, 0°
800279.7	41AM	50	200	20 ... 136	1, PTB	LEMO6	yes	permanent use, 0°
800059.4	41CN	50	200	20 ... 136	1, PTB	LEMO6	yes	permanent use, 90°



## Intensity probes & accessories

Order-No:	Type	Ø	Up	Capsule	Preamplifier	Frequency range	Dynamic range	Remarks	Class
800246.7	SIS90	¼"	200 V	MK390 MK290	MV302	35 Hz...12 kHz	15...146 dB	LEMO10, without connector cable	1
800247.5	SIS90-1	½"	200 V	MK290	MV302	35 Hz...8 kHz	15...146 dB	LEMO10, without connector cable	1
800252.2	SIS92-1	½"	200 V	MK290	MV302	35 Hz...8 kHz	15...146 dB	without connector cable	1
937105.4								remote control for SIS with 2 keys & 2 LEDs	
937113.4								splitter cable for SIS, 2x LEMO7, LEMO8	
800425.1	50AI	½"	200 V	40AF	26AC	35 Hz...12 kHz	15...146 dB	with splitter cable 2x LEMO7, LEMO8	1
800792.0	50BI	½"	ICP	40AE	26CB	35 Hz...8 kHz	15...140 dB	with splitter cable 2x LEMO7, LEMO8	2

## Calibrators

Order-No:	Type	Application	Physical Unit	Connector	Remarks
800351.5	511E	acoustical calibrator, class 1	1 kHz, 94/104 dB	¼"	limited temperature range
800527.7	511E	acoustical calibrator, class 1	1 kHz, 94/104 dB	½"	limited temperature range
800695.2	511F	acoustical calibrator, class 1	1 kHz, 94/104 dB	½"	
800396.6	NC-74	acoustical calibrator, class 1	1 kHz, 94 dB	½"	PTB, calibratable
800667.1	Kal4000	acoustical calibrator, class 1	1 kHz, 114 dB	½"	PTB, calibratable
800407.5	42AA	acoustical calibrator, class 0	250 Hz, 94 dB	½"	pistonphone type
800248.3	51AB	sound intensity calibrator	5 Hz...20 kHz	½"	supply via external generator
800307.4	VC-10	vibration calibrator	159.2 Hz, 10 m/s <sup>2</sup>	M5	up to 300 g accelerometer mass
800747.1	VC-13	vibration calibrator	159.2 Hz, 10 m/s <sup>2</sup>	M5	up to 520 g accelerometer mass
800309.0	VC-100	vibration calibrator	70 Hz...10 kHz, 1 m/s <sup>2</sup>	M5	sweep, alternative via external generator



## Cables and adapters

Order-No:	Description	Length	Connector	Remarks
800257.1	flat tape cable 0.2 mm	0.3 m	LEMO7m – LEMO7f	for windows & doors
961011.7	microphone extension cable	3 m	LEMO7m – LEMO7f	
961014.1	microphone extension cable	5 m	LEMO7m – LEMO7f	
961012.5	microphone extension cable	10 m	LEMO7m – LEMO7f	
961013.3	microphone extension cable	20 m	LEMO7m – LEMO7f	on cable drum
961016.6	microphone extension cable	30 m	LEMO7m – LEMO7f	on cable drum
937120.6	SIS90 extension cable	10 m	LEMO14m – LEMO14f	
937121.4	SIS90 extension cable	20 m	LEMO14m – LEMO14f	on cable drum
937122.2	SIS90 extension cable	30 m	LEMO14 – LEMO14	on cable drum
901124.2	microphone cable GRAS41	10 m	LEMO6 – LEMO6	double shielded
974348.3	tacho cable Soundbook	0.2 m	LEMO4m – BNCm	for Soundbook_octav
974161.7	tacho cable 1 HARMONIE	0.2 m	LEMO8m – BNCf	rot
974159.4	tacho cable 2 HARMONIE	0.2 m	LEMO8m – BNCf	blau
982022.2	tacho cable MSX16	1.5 m	LEMO4m – BNCm	
982023.0	5:1 divider cable	1.5 m	LEMO7m – BNCm	for microphone input
971013.7	LEMO7 – BNC cable	1.5 m	LEMO7m – BNCm	
971014.5	LEMO7 – B&K adapter	0.2 m	LEMO7f – B&Km	ZG350
800413.0	LEMO7 – B&K adapter	0.2 m	LEMO7m – B&Kf	cable adapter
971010.4	LEMO7 – BNC adapter	0.2 m	LEMO7m – BNCf	
974164.1	LEMO_Triax-BNC adapter	0.2 m	LEMO_Triaxm – BNCf	for Soundbook_octav
974169.0	LEMO_Triax-BNC cable	1.5 m	LEMO_Triaxm – BNCm	for Soundbook_octav
971011.2	LEMO4 – 2 x BNC adapter	0.2 m	LEMO4 – 2 x BNC	SYMPHONIE output
978013.3	BNC – BNC cable, RG 174	0.2 m	BNCm – BNCm	M978 – PC200
978015.8	BNC – BNC cable, RG 174	5 m	BNCm – BNCm	
978016.6	BNC – BNC cable, RG 174	10 m	BNCm – BNCm	
978019.0	BNC – BNC cable, RG 174	30 m	BNCm – BNCf	on cable drum
978018.2	BNC – BNC cable, RG 174	50 m	BNCm – BNCf	on cable drum
978014.1	BNC – BNC cable, RG 174	100 m	BNCm – BNCf	on cable drum
978022.1	BNC – BNC cable, RG 174	150 m	BNCm – BNCf	on cable drum
978023.8	BNC – BNC cable, RG 174	200 m	BNCm – BNCf	on cable drum
978024.6	BNC – BNC cable, hightech	10 m	BNCm – BNCm	
978025.4	BNC – BNC cable, hightech	100 m	BNCm – BNCf	on cable drum
978026.2	TNC – LEMO7 cable	1.5 m	TNCm – LEMO7f	IP 65
978027.0	TNC – TNC cable, hightech	100 m	TNCm – TNCf	IP 65, on cable drum
974233.7	Soundbook AES3 cable	0.2 m	LEMO5 – XLR	
974234.5	Soundbook SPDIF cable	0.2 m	LEMO5 – XLR	
974235.3	Soundbook TOSLINK cable	0.2 m	LEMO5 – TOSLINK	
982322.5	Cardbus cable MSX16	1 m	HDSC68 – HDSC50	for CardBus
974133.6	Interface cable HARMONIE	1.5 m	LEMO4m – ITT	
974156.1	Soundbook output 2 x BNC	0.2 m	LEMO3m – 2 x BNC	
974157.8	Soundbook output 3.5 mm	0.2 m	LEMO3m – jack 3.5	
974158.6	Soundbook output 6.3 mm	0.2 m	LEMO3m – jack 6.3	
974162.5	HARMONIE output 6.3 mm	0.2 m	jack 6.3 – 2 x BNCm	
800222.5	Interface cable MSX16	1 m	HDSC50 – HDSC50	for PCI-Card
800350.7	Expansion cable MSX16	0.2 m	HDSC50 – HDSC50	for channel extension



## Cables and adapters

Order-No:	Type	Legth	Connectors	Remarks
800259.6	Junction cable WME940	5 m	LEMO 2E	
800260.2	Junction cable WME940	10 m	LEMO 2E	
800300.0	Junction cable Microdot	1.5 m	UNF10-32 – BNCm	
800301.7	Junction cable Microdot	5 m	UNF10-32 – BNCm	
800302.5	Junction cable KS-74	1.5 m	TNCm – BNCm	
800359.7	Junction cable KS-48	1.5 m	BNCm	
800360.3	Junction cable KS-47	1.5 m	open ends	
800608.5	Junction cable 070A02	3 m	MIL-C-1015	for 603C00
800370.8	Junction cable 052BR020AC	30 m	MIL-C-1015	for 603C00
800537.3	Junction cable 003C10	3 m	UNF10-32 – BNCm	
800303.3	Junction cable 352C66	3 m	Micro 5-44 – BNCm	
800620.8	Junction cable 010G05	3 m	3x BNCm	for 356A02
800705.3	Binder711 extension	30 m	711m - 711f	
800325.0	Binder711–3x BNC	0.2 m	711m - 3x BNCm	
800579.1	Binder711–3x LEMO_Triax	0.2 m	711m - 3x LEMO_Triax	for seat pad
800491.8	Binder711–3x LEMO07	0.2 m	711m - 3x LEMO07m	for seat pad
800642.1	UNF10-32 cable 5 m	5 m	UNFm - UNFf	extension cable



## Accessories

Order-No:	Type	Description / Function
974149.8	Charge Adapter	charge adapter impulse, LEMO7 - UNF10-33
974150.4	Charge Adapter	charge adapter vibration, LEMO7 - UNF10-33
800426.8	DO06	half dodecahedron loudspeaker 300 W , 10 m cable
800068.2	DO12	dodecahedron loudspeaker 600 W, with tripod, case, 10 m cable
800287.7	P600R	power amplifier 600 W with internal noise generator
800057.8	RL904	reference loudspeaker, 3-way compact system (active), 230 VAC
800288.6	TM50	tapping machine, 230 VAC, RF controlled
800015.1	TM51	tapping machine, 230 VAC // 24 VDC intern, RF controlled
800631.7	KR01	resonance tube, SET
800249.1	DISTO classic	LASER distance meter 0.3...100 m, accuracy $\pm 3$ mm
800356.4	PELI1400S	protector case silver
800366.0	PELI1400SW	protector case silver
800380.4	PELI1520S	protector case black
800473.3	HFI650TR	trackmaster headphones
800459.8	16LVS	Garmin GPS-receiver
800731.8	PBOE	Pass-by GPS speed measuring unit & onboard-electronic



## ICP Accelerometers

Order-No:	Type	Range	Sensitivity	Resonance frequency	Cut-off frequency	Mass	Temperature range	Connector & construction	Remarks
800358.0	KS48B	5 g	1000 mV/g	4 kHz	0.15 Hz	165 gr	-20...80 °C	Binder 713	high sensitivity
800292.4	KS74B	120 g	50 mV/g	32 kHz	0.3 Hz	32 gr	-20...120 °C	TNC, axial	isolated base
800293.2	KS76B	100 g	50 mV/g	25 kHz	0.3 Hz	23 gr	-20...120 °C	UNF10-32, axial	universal
800291.6	KS77B	100 g	50 mV/g	25 kHz	0.3 Hz	23 gr	-20...120 °C	UNF10-32, axial	universal
800334.7	KS80C	120 g	50 mV/g	23 kHz	0.3 Hz	70 gr	-20...90 °C	Binder713	industrial application
800357.2	KD41V	60 g	100 mV/g	15 kHz	10 Hz	60 gr	-10...120 °C	UNF10-32	low cost
800294.0	KD93	20000 g	5 pC/g	110 kHz	0.3 Hz	10 gr	-20...120 °C	40 cm, UNF10-32	low sensitivity
800295.7	KS94	400 g	14 mV/g	45 kHz	0.3 Hz	3.5 gr	-20...120 °C	Micro M3, axial	miniature accelerometer
800297.3	KB12VB	0.5 g	10 V/g	350 Hz	0.2 Hz	150 gr	-10...80 °C	UNF10-32	building vibration
800298.1	KS943	400 g	14 mV/g	33 kHz	0.3 Hz	16 gr	-35...150 °C	Binder711	triax
800580.6	KS813B	55 g	100 mV/g	15 kHz	0.3 Hz	115 gr	-20...90 °C	Binder718	triax
800299.8	KB103SV-100	60 g	100 mV/g	10 kHz	0.3 Hz	310 gr	-10...80 °C	Binder 711	triax seat pad
800460.4	608A11	50 g	100 mV/g	21 kHz	0.5 Hz	100 gr	-54...121 °C	3 m cabel	industrial application
800576.7	603C00	500 g	10 mV/g	25 kHz	0.5 Hz	51 gr	-54...121 °C	IP68	industrial application
800607.7	352C22	500g	10 mV/g	50 kHz	1 Hz	0.5 gr	-54...121 °C	+ cabel 10-32 St.	mini accelerometer
800536.5	352C43	500 g	10 mV/g	8 kHz	1 Hz	3 gr	-54...121 °C	UNF10-32	without cable
800296.5	352C66	50 g	100 mV/g	10 kHz	0.5 Hz	2 gr	-54...93 °C	5-44 coaxial	without cable, miniature
800650.1	356A01	1000 g	5 mV/g	8 kHz	2 Hz	1.0 gr	-54...121 °C	+ cabel 3 x BNC	triax miniature
800590.2	356A02	500 g	10 mV/g	5 kHz	1 Hz	10.5 gr	-54...121 °C	+ cabel 3 x BNC	triax, high temperature
800503.5	356A16	50 g	100 mV/g	5 kHz	0.5 Hz	7.4 gr	-54...80 °C	+ cabel 3 x BNC	triax
800461.2	356A22	50 g	100 mV/g	4 kHz	0.5 Hz	5.4 gr	-54...77 °C	+ cabel 3 x BNC	triax miniature
800619.8	356A33	500 g	10 mV/g	10 kHz	2 Hz	5.3 gr	-54...121 °C	1/4-28 4-Pin	triax
800592.7	356B08	50 g	100 mV/g	5 kHz	0.5 Hz	20 gr	-54...77 °C	1/4-28 4-Pin	triax TEDS
800789.8	356B20 HT	5000 g	1 mV/g	55 kHz	2 Hz	4 gr	-54...121 °C	+ cabel 3 x BNC	triax, high temperature
800535.7	356B21	500 g	10 mV/g	10 kHz	2 Hz	4 gr	-54...121 °C	+ cabel 3 x BNC	triax
800492.6	356B40	10 g	100 mV/g	1 kHz	0.5 Hz	180 gr	-10...50 °C	+ cabel 3 x BNC	triax seat pad
800651.8	HA01	1000 g	5 mV/g	8 kHz	2 Hz	30 gr	-20...80 °C	Binder 711	triax hand-arm
800652.6	HA02	1000 g	5 mV/g	8 kHz	2 Hz	35 gr	-20...80 °C	Binder 711	triax hand-arm + force



## Microphone accessories

Order-No:	Type	Description / Function
982400.0	<b>RING32</b>	microphone array Ring32 with BNC (without microphones)
982401.7		16-ch connector cable 10m, DSUB25m - DSUB25f
982402.5		splitter cable DSUB25 - 16x BNC
982403.3		splitter cable DSUB25 - 16x LEMO7
800079.5	<b>A63.1</b>	microphone adapter 1" auf 1/2"
800256.3	<b>MH64</b>	1/2" microphone holder
800250.6	<b>NK65</b>	nose cone for 1/2" microphone
800253.0	<b>W2</b>	windscreen for 1/2" microphone
800254.7	<b>W3</b>	windscreen for 1/4" microphone
800255.5	<b>W4</b>	windscreen for SIS90
800039.3	<b>MTS</b>	microphon desk tripod
800037.7	<b>MS01</b>	microphone tripod 1m
800251.4	<b>MS04</b>	microphone telescope tripod max 2.6m
800753.4	<b>MS05</b>	adhesive microphone holder
800132.0	<b>MS06</b>	stage tripod with rollers for array / DO12
800630.0		light tripod for SLM
800723.8		adapter 1/2" - 3/8" for tripods
800034.4	<b>QTM9</b>	telescopic mast 9 m
800280.3		dry adapter for 41AL
800281.1		calibration adapter for 41AM/CN
800282.8		calibration adapter for 41AL
800283.6		windscreen for 41AM/CN/AL
800284.4		windscreen for 41AM/CN/AL + bird protector



## Special sensors



Order-No:	Type	Description / function
800160.1	<b>WMS-DFTWR</b>	weather station with RS232-Interface + basic software
800543.7	<b>WMS-R</b>	rain sensor for weather station MWS-DFTWR (option)
800600.3	<b>WMS-IR</b>	IR temperature sensor for MWS-DFTWR (option)
902106.7		ICP temperature sensor -50...+150 °C
902220.3		3D seismometer, ICP power supply, TEDs
902221.1		1D seismometer, ICP power supply, TEDs
974050.3		RPM-sensor for Soundbook / HARMONIE
800655.0	<b>4410-9</b>	LASER-sensor with 0.6 m optical cable, 974187.5 necessary
800333.0	<b>LT01</b>	LASER-tacho, 974187.5 necessary
800041.6	<b>RPM8000</b>	vehicle RPM-adapter (from cigarette-lighter socket)
800310.5	<b>088C03</b>	impulse hammer 140 g, 2.2 kN with integrated force sensor
800348.4	<b>086C05</b>	impulse hammer 500 g, 22 kN with integrated force sensor
800355.6	<b>086D50</b>	impulse hammer with integrated force sensor
800482.1	<b>101A06</b>	ICP pressure sensor, UNF10-32 connector
800483.8	<b>102A07</b>	ICP pressure sensor, UNF10-32 connector
800502.7	<b>102A12</b>	ICP pressure sensor, UNF10-32 connector
800526.0	<b>208C02</b>	ICP force sensor, +-450 N

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