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STUDIO CONDENSER MICROPHONES COLETTE SERIES





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COLETTE SERIES

Studio Condenser Microphones

- microphone amplifiers for all methods of powering
 12 V phantom powering
 12 V parallel powering
 48 V phantom powering
- many types of capsule are available offering a wide variety of directional patterns. All can be easily interchanged on all microphone amplifiers
- Special-purpose systems can be set up, with no loss in quality, using electrically active accessories between the capsule and amplifier. Connecting the active cable KC-, for example, results in a lightweight "miniature microphone"
- special accessories for the "miniature microphone"

Further special features

To avoid falsification of sound reproduction, all microphones have small dimensions. Nevertheless, a **high maximum output level** is achieved by means of an output stage **without transformer.** This corresponds to a **high maximum sound pressure level** although the sensitivity shows normal high values.

By virtue of the transformerless construction, the **output impedance is low** and practically independent of frequency. Sensitivity to interference from magnetic fields is also eliminated.

A further advantage is that all microphones – including those with 48 V supply voltage – operate with a **polariza-tion voltage of 60 volts.**

Moreover, the **transducer is insulated relative to its casing**, ensuring high operational safety and also reducing the number of components in the high-ohmic input of the amplifier.

Among the transducers with single directional pattern, the hypercardioid has proved very successful, in particular for film and television work.

Directional patterns in the multi-pattern capsules are selected by changing the acoustic-mechanical elements. The advantages of this method are based on the utilization of one membrane only (German and foreign patents).

The technology of the Colette series guarantees reliability, even under extreme climatic conditions.



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		Direction	al pattern 🕨	0	0	\Box	\square	ଚ	0 0	0 0 8	8			
COLETTE SERIES			omni	special omni ⁸⁾	cardioid	speech card.	hypercardioid	switchable	switchable	figure eight	_	POWER SUPPLIES5)		
		Cap	sule type 🕨	MK 2	МК 3	MK 4	MK 4 S	MK 41	MK 5	MK 6	MK 8			
POWERING	Current	Output impedance	Amplifier type ⁵⁾	DESIGNATION OF COMPLETE MICROPHONE ^{s)} , for example: amplifier CMC 3 D + capsule MK 4 = microphone CMC 34 D or CMC 5 U g + MK 41 g = CMC 541 Ug ⁷								Portable AC power supply for 1 microphone	Portable AC power supply for 2 microphones	Battery supply unit
12 V Phantom"	about 10mA	about 20 ohms	CMC 3	CMC 32	CMC 33	CMC 34	CMC 34 S	CMC 341	CMC 35	CMC 36	CMC 38	NG 31	NG 32	BZ 31
12 V Parallel	about 9mA	about 10 ohms	CMC 4	CMC 42	CMC 43	CMC 44	CMC 44 S	CMC 441	CMC 45	CMC 46	CMC 48	NG 41	NG 42	BZ 41
48 V Phantom ²⁾	about 4mA	about 35 ohms	CMC 5	CMC 52	CMC 53	CMC 54	CMC 54 S	CMC 541	CMC 55	CMC 56	CMC 58	NG 51	NG 52	BZ 51
Sound incidence				_		axial	axial	axial	axial	radial ⁴⁾	radial4)	-		
				20-20 000 Hz	20-20 000 Hz	40-20 000 Hz	80-20 000 Hz	40-20 000 Hz	40-20 000 Hz	40-16 000 Hz	40-16 000 Hz	 ③ Special type with positive supply pole grounded on request (letter "p" added before connector designation^{s1}, e.g. CMC 34 pD). ② If the available 48 V phantom powering cannot supply the necessary 4 mA - including our NT 51 and NT 52 - then microphones of our CMT 50 series must be used instead (0.7 mA each). ③ On request, any microphone amplifier can be delivered with its sensitivity increased by about 5 dB (marking: blue dot on the amplifier). 		
Sensitivity ³⁾ (1 kohm load, 1kHz) about				1,2 mV/µbar 12 mV/Pa	1 mV/μbar 10 mV/Pa	1,2 mV/µbar 12 mV/Pa	1,3 mV/μbar 13 mV/Pa	1,3 mV/µbar 13 mV/Pa	1,0/1,2 mV/μbar 10/12 mV/Pa	0,9/1,0/1,0 mV/µbar 9/10/10 mV/Pa	1,0 mV/μbar 10 mV/Pa			
Equivalent noise level re. 2 x 10 ⁻⁴ ubar, IEC 179 about				17 dB-A	18 dB-A	18 dB-A	17 dB-A	17 dB-A	18 dB-A	19 dB-A	19 dB-A			
Equivalent noise level re. 2 x 10 ⁻⁴ ubar. DIN 45405 about				24 dB	25 dB	25 dB	24 dB	24 dB	25 dB	26 dB	26 dB			
Signal/noise ratio (A-weighted) re. 10 ubar = 1 Pa abou				77 dB	76 dB	76 dB	77 dB	77 dB	76 dB	75 dB	75 dB			
Max sound pressure level for 0.5 % total distortion about				130 dB SPL	132 dB SPL	131 dB SPL	130 dB SPL	130 dB SPL	131 dB SPL	132 dB SPL	132 dB SPL	Phantom powered	microphones can also be de tion: marking: red dot on the a	livered with built-in mplifier).
Output voltage at max, sound pressure level ⁹¹ about				850 mV for all types								 The reference axis of the microphone (axis of maximum sensitivity) is marked by a red dates the front of the second. 		
Recommended load					≥ 600 ohms for all types, floating								connectors of microphonos a	s woll as amplifiers
Dimensions abou			about	φ 0,79″ x 5″	Ø 0,79″ x 5″	ϕ 0,79" x 5"	Ø 0,79″ x 5″	Ф 0,79″ x 5″	Ø 0,79″ x 5,2″	Ø 0,79″ x 5,67″	Ф 0,79″ x 5,67″	power supply units etc.:		
Weight			about	80 grams	80 grams	80 grams	80 grams	80 grams	80 grams	80 grams	80 grams	"D" for Tuchel (for "U" for Cannon (fo	r instance CMC 341 D) r instance CMC 341 U)	
Connectors				Tuchel or Cannon ⁵⁾								(6) With threaded adapter for thread studs: $3/8''$, $1/2''$ and $5/8'' - 27$ NS		
STANDARD ACCE	ESSORIES		4									⑦ The standard surf (letter "g" added to	ace finish is nickel; dark TV type designation).	/ finish on request
Microphone cables	5			KT 10 k - KT 20 k - KT 10 U - KT 20 U -	KT 30 k, 33 ft. (10m) KT 30 U, 33 ft. (10m)	– 66ft. (20 m) – 100 – 66ft. (20 m) – 100	ft. (30 m), Tuchel connec ft. (30 m), Cannon conne	ctors with plastic jack ctors	et	-		 All pressure trans- some tendency for 	ducers, even with this relative r very high frequency pickup	ely small size, show to become "direc-
Output attenuator				MDZ 10 ⁵⁹ attenuates the output at 1 kohm load by 10 dB								tionalized". The M	IK 2 capsule has essentially f	flat (on axis) direct
Speech filter				E 5 ⁵⁾ for bass	roll-off, fundamental att	enuation 12 dB, belo	ow 1 kHz – 6 dB/oct.					reverberant sound	field and therefore shows	a substantial high
Close-talking guards				B 20 nylon we	3 20 nylon web basket ditto B 20 S for extreme cases B 5 out of foam material W 20 or W 5 for MK 6 and MK 8						omnidirectional c	haracteristics of our multi-pa	attern capsules are	
Wind guards				W 20 nylon web basket ditto W 20 S for extreme cases W 5 out of foam material							 also true pressure (9) Even at the higher 	st sound pressure levels foun	in most practical	
Stand couplings				SG 20 ⁶⁰ for 1 microphone SG 22 ⁶⁰ twin coupling								situations, it is sca	arcely possible for Colette ser	ies microphones to
Elastic suspensions				A 20 ⁶⁾ for 1 microphone ditto A 20 S ⁶ stiffer e.g. for mike with SKC 200 A 22 ⁶ twin suspension								sound pressure le	vels could overload the equip	oment to which the
Holder to align a microphone hanging on cable			H 20								for condenser mic	rophones. Very low frequency	interference result-	
Table stands / base				T 20 tripod TA 20 tripod with elastic suspension, ditto TA 22 with twin suspension T 5 heavy model 1600 grams, threaded stud 3/4" BF 250 shock absorbing base, 4000 grams, threaded stud 3/4" With twin suspension								the mistaken impre windscreen. To av	nts could also overload such e ession that the microphone nee old these problems, we offer a	equipment and give eds a more effective n in-line attenuator,
Table mounting flange				F 5 not wired threaded stud 3/6" F 3 with internally wired connectors								the MDZ 10, as an	accessory. Connected at the m	nodulation output of
Screw clamp				Z 10 threaded stud ³ /a"								phantom powered	I microphones it can also b	e put between the
Goosenecks				S 6/285 ⁶¹ 11,2" (285 mm), not wired, S 3/250 9,8" (250 mm), wired, fits into F 3 or SS 12 ⁶¹ (straight coupling)								power supply and capsule and ampli	fier, the MDZ 10 causes no los	s of signal-to-noise
Signal-light unit				LS 5 colours: red/green								ratio in the microp	none.	mmandad laad in
SPECIAL ACCESS	ORIES						8					pedance is 200 Oh	ns used, the minimum reco ms rather than 600 Ohms.	mmended load im-
Active Colette-cabl	e KC 5	16,5 ft (5	m)		Gooseneck, not wit	ed SC 1	150 5,9" (150 mm) interna	I thread 3/8" Mini	ature table stand	TC incl. SGC				
Active gooseneck SKC 200 7,9" (200 mm)				Miniature stand coupling SGC internal thread 3/6" Stereophonic bracket for 2 mini mikes STC ⁶⁾ spacing 6,7" (170 mm), angle 110°										
Active Colette tube	s RC 700 (0,	7 m)/RC 1200 (1,	2 m) incl. RG	38	Miniature holder to align a microphone hanging on cable HC Microphone to be fixed on instruments CM 02 – see separate information									
Mounting for tubes	by RG 8 on STR	R and BF 250			Elastic suspension	or boom ACA	interna	al thread 3/8" Clip-	on microphone	CM 03 - see separ	ate information	15.5A		







Subject to alteration / Printed in Germany

Grafik Schnell - Foto Schnebele