

Измерительные микрофоны и предусилители DELTA OHM SSP

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Единый адрес для всех регионов: dmh@nt-rt.ru || www.deltaohm.nt-rt.ru

CCP Preamplifiers and Microphone Sets

HDMS_CCP... / HDP_CCP...

○ CCP* / IEPE COMPATIBLE

Standardized Constant Current Supply widely available in many professional measurement frontends

○ BEST ACCURACY WITH ACCEPTABLE COST

High precision of measurements at affordable cost

○ FLEXIBILITY

Easy integration with other sensors into CCP based systems

○ EASY CONNECTION AND LOW COST CABLING

Two wire common low cost cables can be used along with BNC connectors

○ DIFFERENT MODELS FOR EVERY APPLICATION

Several possibilities of gain, sensor output sensitivity and sound field optimization

○ INDIVIDUAL CALIBRATION

Microphone sets provided with individual calibration and sensitivity values



Main Applications

Multichannel acquisition
Production quality control
NVH automotive testing
Home appliances testing
Laboratory measurements

Sound Pressure Levels Precision Measurement

The quality, stability and reliability of a microphonic preamplifier are fundamental in the process of acquiring accurate measurements of sound pressure levels.

The high impedance signal generated by precision microphones, which is very sensitive to the characteristics of the transmission cables, needs to be **amplified and made compatible** with the input specifications of professional measurement systems. The quality of transduction of this signal depends on the preamplifier, a fundamental element of the measurement chain. Our CCP preamplifiers use a **standardized 2 ÷ 20 mA power supply** which makes them **compatible with most professional measurement systems** and allow to use two-wire signal transmission cables with BNC connectors, widely adopted in the measurement front-ends.

Delta OHM also introduces, in addition to the CCP preamps, a new range of **complete microphone sets**, consisting of a CCP preamp + precision microphone. Microphone sets are available in different configurations to meet key measurement needs.

CCP preamplifiers use a two-wire system, where the signal is superimposed on the wire through which the current is kept constant. This allows that simple co-axial cables can be used.

Microphone Sets based on CCP preamplifiers can be connected directly to all professional measurement systems through coaxial cables. Our Microphone Sets are delivered as a unit microphone + CCP preamplifier and individually calibrated including sensitivity values and frequency response curves. Sensitivity value can therefore be used directly in acquisition system setup.

*CCP (Constant Current Power) is equivalent to IEPE (Integrated Electronic Piezo-Electric) and CCLD (Constant Current Line Drive) and is compatible with many other constant current driven products such as Deltatron®, Isotron, etc.

CCP* Preamplifiers - technical specifications

	HDP_CCP	HDP_CCP/10	HDP_CCP_UC	HDP_CCP_UC/10
Size	½"	½"	½"	½"
Frequency response (±2dB) (Hz)	1 ÷ 70k		1 ÷ 50k	
Output connector	BNC			
Power supply (mA)	2 ÷ 20 (typ. 4 mA)			
Input referred Noise A-weighted (µV)	< 9	< 5	< 10	< 6
Max output voltage (Vpp)	16			
Gain with 22pF capacitive adapter (dB)	0	10	3	13
Operating temperature	-20...+75 °C (storage temperature -40...+85 °C)			
Microphones	MC21 / MC22E		UC52/1	

CCP Microphone sets - technical specifications

	HDMS_CCP	HDMS_CCP/10	HDMS_CCP_UC	HDMS_CCP_UC/10	HDMS_CCP_RI	HDMS_CCP_RI/10
Application	Free Field				Random Incidence	
Microphone	MC21E		UC52		MC22E	
Size	½"	½"	½"	½"	½"	½"
Output connector	BNC					
Length (mm)	88.6		84.4		88.6	88.6
Sensitivity (mV/Pa)	30	100	25	80	30	100
Frequency response (±2dB) [Hz]	3.5 ÷ 20k		20 ÷ 12.5k		3.5 ÷ 12.5k	
Power supply	2 ÷ 20 mA (typ. 4 mA)					
Dynamic range (dBA)	22 ÷ 140	18 ÷ 130	24 ÷ 140	18 ÷ 130	22 ÷ 140	18 ÷ 130
Max output Peak voltage (V)	8					
Operating temperature	-20...+75 °C					
Polarization Voltage (V)	0					
IEC 61094-4 compliance	WS2F		-		WS2D	

Microphones - technical characteristics

	MC21E	MC21P	MC23	UC52	MC22E	MC22P
Size	½"	½"	½"	½"	½"	½"
Capsule Response	Free Field			Diffuse Field		
Sensitivity (mV/Pa)	50	44.5	50	22.5	50	
Dynamic range (3% THD) (dB)	147	146	146	150	144	146
Inherent noise (dBA)	15	<15	15	18	<15	15
Capacitance (pF)	12	15	19	19	11	16
Temp. Coeff. (dB/°C)	0.009	0.006	<0.01	-0.008	0.009	<0.01
Frequency range (±2dB) (Hz)	3.15 ÷ 20K		3.5 ÷ 20K	20 ÷ 8K	3.15 ÷ 12.5K	
Polarization voltage	0 V	200 V	200 V	0 V	0 V	200 V
IEC 61094 compliance	WS2F			-	WS2D	
IEC 17025 calibration	Option (Accredited calibration services available on request)					

UC52

Pre-polarized condenser microphones - standard ½" diameter



MC21E - MC22E
Pre-polarized condenser microphones - standard ½" diameter"

MC21P - MC22P - MC23
200V polarized condenser microphones - standard ½" diameter"



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