GRAS 26CS

1/4" CCP Standard Preamplifier with Microdot Connector, Very Short

Freq range: 2.5 Hz - 200 kHz
Noise: 1.8 µV Gain: -0.45 dB
Special feature: For confined spaces

The GRAS 26CS 1/4" Preamplifier is a very small preamplifier optimized for use with prepolarized condenser microphones. It is a robust unit and uses a CCP power supply. It has a very low inherent noise level, a large dynamic range and a frequency response from below 2 Hz to above 200 kHz.

GRAS Sound & Vibration
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Typical applications and use

- Confined spaces
- High-frequency measurements
- High-pressure measurements
- Sound intensity measurements
- Near-field measurements
- Anechoic boxes
- Hearing-aid measurements

Design

Its small ceramic thick-film substrate has a very high input impedance, and is shielded by a guard ring to minimise the influence of stray capacitance and microphonic interference.

The 26CS is delivered with Generation II TEDS. The calibration data is programmed into the built-in TEDS according to IEEE 1451.4 using UDID I27-0-0-0U. If your measurement platform supports Transducer Electronic Data Sheets you will be able to read and write data like properties and calibration data.

Generation II TEDS chip (DS2431) may require updated system software.

It can be used with GRAS 40BE and 40BD 1/4" and 40AE, 40AD and 40AQ 1/2" prepolarized microphones using the included GRAS GR0010 Adapter for 1/4" preamplifier and 1/2" microphone.

The 26CS has an integrated Microdot output connector. Microdot-to-BNC cables are available. The casing is made of stainless steel for maximum strength and durability.

Specifications

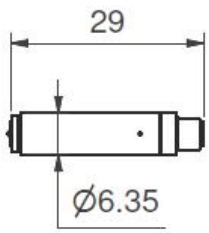
Frequency range (±0.2 dB) with 18 pF microphone dummy	Hz	2.5 to 200 k
Slew rate	V/µs	20
Input impedance	GΩ // pF	20 // 0.4
Output impedance	Ω	< 50
Output Voltage Swing, min. @ 24-28 V CCP voltage supply	Vp	8
Noise (A-Weighted) max.	µV	2.5
Noise (A-Weighted) typ.	µV	1.8
Noise (Linear 20 Hz – 20 kHz) max.	µV	6
Noise (Linear 20 Hz – 20 kHz) typ.	µV	3.5
Gain	dB	-0.45
Power supply (Constant Current Power)	mA	2 to 20 (typ. 4)
DC bias voltage, typ.	V	12
Temperature range, operation	°C / °F	-30 to 70 / -22 to 158
Temperature range, storage	°C / °F	-40 to 85 / -40 to 185
Humidity range non condensing	% RH	0 to 95
TEDS UDID (IEEE 1451.4)		I27-0-0-0U
Connector type		Microdot 10/32
CE/RoHS compliant/WEEE registered		Yes / Yes, Yes
Weight	g / oz	3.0 / 0.12

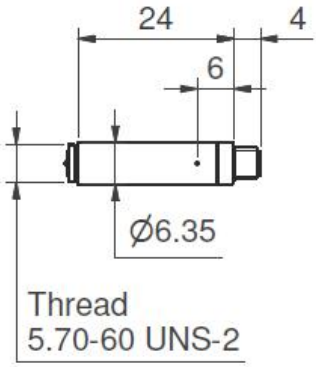
Conditions: 23 °C Ambient temperature
4 mA / 24 V open loop CCP voltage
18 pF dummy microphone
3 m output coax-cable

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

Dimensions

Dimensions in mm





Ordering info

Included items

GR0010	Adapter for 1/4" preamplifier and 1/2" microphone

Optional items

GRAS AA0070	3 m Microdot - BNC Cable
GRAS AL0029	1/4" Microphone Holder, POM
GRAS AL0013	1/4" Microphone Holder, Stainless Steel
GRAS AL0005	Swivel head
GRAS AL0006	Tripod
GRAS RA0063	Adapter for 1/8" microphone and 1/4" preamplifier
GRAS RA0006	Right-angled (90°) Adapter for 1/4" Microphone and 1/4" Preamplifier
GRAS RA0080	6pF Preamplifier-input adapter for 1/4" microphones
GRAS 12AL	1-Channel CCP Power Module with A-weighting filter
GRAS 12AQ	2-Channel Universal Power Module with signal conditioning and PC interface

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GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

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About GRAS Sound & Vibration

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at www.GRASacoustics.com

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