

# GRAS 26CT

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



Freq range: 2.5 Hz - 200 kHz  
Noise: 1.8  $\mu$ V Gain: -0.45 dB  
Special feature: For confined spaces

The GRAS 26CT 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.

## 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 26CT 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.

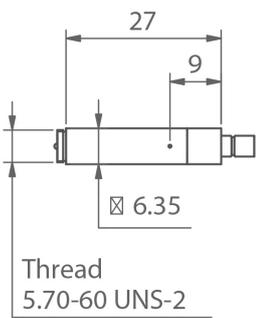
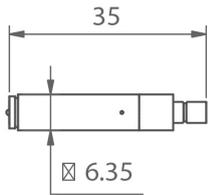
The 26CT has an integrated SMB connector. SMB-to-BNC cables are available, also with angled SMB. The casing is made of stainless steel for maximum strength and durability.

|   |                             |                        |
|---|-----------------------------|------------------------|
| Frequency range ( $\pm 0.2$ dB) with 18 pF microphone dummy | Hz                          | 2.5 to 200 k           |
| Slew rate   | V/ $\mu$ s                  | 20                     |
| Input impedance   | G $\Omega$ // pF            | 20 // 0.4              |
| Output impedance  | $\Omega$                    | < 50                   |
| Output Voltage Swing, min. @ 24-28 V CCP voltage supply     | Vp                          | 8                      |
| Noise (A-Weighted) max.                                     | $\mu$ V                     | 2.5                    |
| Noise (A-Weighted) typ.                                     | $\mu$ V                     | 1.8                    |
| Noise (Linear 20 Hz – 20 kHz) max.                          | $\mu$ V                     | 6                      |
| Noise (Linear 20 Hz – 20 kHz) typ.                          | $\mu$ V                     | 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                                | $^{\circ}$ C / $^{\circ}$ F | -30 to 70 / -22 to 158 |
| Temperature range, storage                                  | $^{\circ}$ C / $^{\circ}$ 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  |                             | SMB                    |
| CE/RoHS compliant/WEEE registered                           |                             | Yes / Yes, Yes         |
| Weight  | g / oz                      | 4.0 / 0.14             |

Conditions: 23  $^{\circ}$ 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 in mm



GS0741  
26CT

## Included items

|                        |   |
|------------------------|---|
| <a href="#">GR0010</a> | Adapter for 1/4" preamplifier and 1/2" microphone |
|------------------------|---|

## Optional items

|                             |  |
|-----------------------------|--|
| <a href="#">GRAS AA0027</a> | 3 m SMB - BNC Cable  |
| <a href="#">GRAS AL0029</a> | 1/4" Microphone Holder, POM  |
| <a href="#">GRAS AL0013</a> | 1/4" Microphone Holder, Stainless Steel                                    |
| <a href="#">GRAS AL0005</a> | Swivel head  |
| <a href="#">GRAS AL0006</a> | Tripod   |
| <a href="#">GRAS RA0063</a> | Adapter for 1/8" microphone and 1/4" preamplifier                          |
| <a href="#">GRAS RA0006</a> | Right-angled (90°) Adapter for 1/4" Microphone and 1/4" Preamplifier       |
| <a href="#">GRAS RA0080</a> | 6pF Preamplifier-input adapter for 1/4" microphones                        |
| <a href="#">GRAS 12AL</a>   | 1-Channel CCP Power Module with A-weighting filter                         |
| <a href="#">GRAS 12AQ</a>   | 2-Channel Universal Power Module with signal conditioning and PC interface |

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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](http://www.GRASacoustics.com)

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