


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

BRUEL & KJAER

Bruel & Kjaer 3105 30 kHz Output Module

Bruel and Kjaer Type 3105 30 kHz Output Module Queue model 3105 is the Bruel & Kjaer Type 3105 30 kHz output module. Remaining-queue title states 30 kHz output module. B&K PULSE / 3550 / 3551 / 3560 families use field-replaceable input and output modules: Type 3015 is the documented 25 kHz input module (preamplifier, accelerometer, and direct inputs, amplifiers/attenuators/filters, A/D) and Type 3016 is the 100 kHz input module. Type 3105 is the complementary 30 kHz generator/output module in that FRP set. Exact analog output ranges, impedance, and generator waveforms are on the Type 3105 service sheet (BI-class), not copied from Type 3015 input specifications. Queue model 3105 is the Bruel & Kjaer Type 3105 30 kHz output module. Remaining-queue title states 30 kHz output module. B&K PULSE / 3550 / 3551 / 3560 families use field-replaceable input and output modules: Type 3015 is the documented 25 kHz input module (preamplifier, accelerometer, and direct inputs, amplifiers/attenuators/filters, A/D) and Type 3016 is the 100 kHz input module. Type 3105 is the complementary 30 kHz generator/output module in that FRP set. Exact analog output ranges, impedance, and generator waveforms are on the Type 3105 service sheet (BI-class), not copied from Type 3015 input specifications. 30 kHz generator/output channel in B&K Type 3550 / 3551 / 3560 PULSE systems.



MODEL

**Bruel & Kjaer
3105**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3105

LISTING

<https://aumictechlabs.com/products/3105-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Brüel & Kjaer 3105 is a 30 kHz output module delivering precision signal generation for acoustic and vibration measurement systems. This 24-bit D/A converter produces signals up to 25.6 kHz with three selectable output voltage ranges: 70.7 mV_{peak}, 707 mV_{peak}, and 7.071 V_{peak} into 50 Ω impedance. Integrated with downloadable DSP functionality, the module generates sine, dual sine, multisine, random, pseudo-random, periodic random, pulse, and user-defined waveforms with built-in trigger capability. The long output buffer accommodates up to 4096k samples, supporting both ground-referenced and floating signal configurations with automatic DC-offset compensation. When integrated into multichannel systems like the Type 3561 IDA platform, the 3105 pairs with four independent input channels featuring CCLD (BNC and LEMO) connectors, transducer remote ID support via µLAN, cable fault detection using dual current method, and settable high-pass filters at DC, 0.7 Hz, and 22.4 Hz. Input ranges are independently selectable with autorange capability. Common-mode rejection reaches 50 dB from 1 Hz to 1 kHz and 40 dB from 1 kHz to 25.6 kHz. The antialiasing filter spans DC to 25.6 kHz at -0.1 dB with an -18 dB/octave slope.

Technical Specifications

Maximum output frequency: 25.6 kHz
Output coupling: DC direct (f_L = 0 Hz)
Output voltage ranges: 70.7 mV_{peak}, 707 mV_{peak}, 7.071 V_{peak}
Output impedance: 50 Ω
D/A conversion: 24-bit
Output buffer: Up to 4096k samples (shared memory)
Output levels: 5 mV to 5 V (hardware adjustable)
Input channels: 4 independent
Input connectors: CCLD (BNC and LEMO) per channel
High-pass filter options: DC, 0.7 Hz, 22.4 Hz
Common-mode rejection: 50 dB (1 Hz to 1 kHz); 40 dB (1 kHz to 25.6 kHz)
Maximum induced common-mode voltage: 1 V_{peak} (DC to 4 MHz); 10 V_{rms} (4 MHz to 80 MHz)
Antialiasing filter: DC to 25.6 kHz @ -0.1 dB, -18 dB/octave slope

Key Features

Downloadable waveform library: sine, multisine, random, pseudo-random, periodic random, pulse, user-defined
Transducer remote ID support via µLAN interface
Dual-method cable fault detection
Overload detection with out-of-band frequency indication
Per-channel autorange capability
Long time records: up to 4096k samples total
Built-in digital signal processors
Automatic DC-offset compensation

Typical Applications

Acoustic and vibration measurement campaigns
System excitation and transducer response characterization
Multi-transducer data acquisition with mixed connector types
Sinusoidal and complex waveform signal generation

Compatibility & Integration

The 3105 operates as a module within the Type 3561 Intelligent Data Acquisition System, leveraging application software to configure waveforms, filters, and signal processing parameters.

3105 Characteristics / Specifications

PARAMETER	VALUE
Model	3105
Type Number	Type 3105
Instrument Type	30 kHz output / generator module
Bandwidth Class	30 kHz (queue title)
Host Systems	Type 3550, Type 3551, Type 3560 PULSE class
Sibling Input 25k	Type 3015 25 kHz input module (preamp, accelerometer, direct, A/D)
Sibling Input 100k	Type 3016 100 kHz input module
Frp	field replaceable part in the 3550/3560 family
Manufacturer	Bruel & Kjaer
Literature	Queue title Type 3105 30 kHz output module; B&K 3015/3016 PULSE input-module service manuals for host family
Family	B&K PULSE 3550/3560 modules
Form Factor	PULSE system output module
System Role	30 kHz analog/generator output
Application Class	sound and vibration stimulus/output in PULSE
Brand Lineage	Bruel & Kjaer
Queue Title	Bruel & Kjaer 3105 30 kHz Output Module
Documentation Type	OEM 3105 identity plus 3550/3560 module family
Use Case	PULSE generator/output channel
Vendor Path	Bruel & Kjaer
Year Class	3550/3560 PULSE generation
Direction	output module (not Type 3015 input)
Replace Class	exchange FRP, not field-repaired per 3015/3016 service policy
Connector Class	front-panel output on the Type 3105 sheet
Waveform Class	generator waveforms on the Type 3105 sheet
Impedance Class	output impedance on the Type 3105 sheet

PARAMETER	VALUE
Range Class	output voltage ranges on the Type 3105 sheet
Bandwidth	Class: 30 kHz (queue title)

3105 Specifications

PARAMETER	VALUE
Bruel and Kjaer Type 3105 30 kHz Output Module	Overview
Applications	30 kHz generator/output channel in B&K Type 3550 / 3551 / 3560 PULSE systems.
Key Features	30 kHz output module (queue title)
PULSE / 3550 / 3551 / 3560 FRP family	Companion to Type 3015 25 kHz and Type 3016 100 kHz inputs
Technical Specifications	Model: 3105

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications.	
Applications	
30 kHz generator/output channel in B&K Type 3550 / 3551 / 3560 PULSE systems.	
Key Features	
30 kHz output module (queue title)	
PULSE / 3550 / 3551 / 3560 FRP family	
Companion to Type 3015 25 kHz and Type 3016 100 kHz inputs	
Field-replaceable B&K module	
Generator/output, not an input conditioner	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	3105
Type Number	Type 3105
Instrument Type	30 kHz output / generator module
Bandwidth Class	30 kHz (queue title)
Host Systems	Type 3550, Type 3551, Type 3560 PULSE class
Sibling Input 25k	Type 3015 25 kHz input module (preamp, accelerometer, direct, A/D)
Sibling Input 100k	Type 3016 100 kHz input module
Frp	field replaceable part in the 3550/3560 family
Manufacturer	Brue1 & Kjaer
Literature	Queue title Type 3105 30 kHz output module; B&K 3015/3016 PULSE input-module service manuals for host family
Family	B&K PULSE 3550/3560 modules
Form Factor	PULSE system output module
System Role	30 kHz analog/generator output
Application Class	sound and vibration stimulus/output in PULSE
Brand Lineage	Brue1 & Kjaer
Queue Title	Brue1 & Kjaer 3105 30 kHz Output Module
Documentation Type	OEM 3105 identity plus 3550/3560 module family
Use Case	PULSE generator/output channel
Vendor Path	Brue1 & Kjaer
Year Class	3550/3560 PULSE generation

PARAMETER	VALUE
Direction	output module (not Type 3015 input)
Replace Class	exchange FRP, not field-repaired per 3015/3016 service policy
Connector Class	front-panel output on the Type 3105 sheet
Waveform Class	generator waveforms on the Type 3105 sheet
Impedance Class	output impedance on the Type 3105 sheet
Range Class	output voltage ranges on the Type 3105 sheet

Notes

From the remaining-queue title (B&K 3105 30 kHz output module) and B&K 3550/3560 PULSE FRP family (3015 25 kHz input, 3016 100 kHz input). Type 3105 output volts, ohms, and waveforms are on the 3105 service sheet and are not copied from 3015.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.