



204-452-000-211

IQS452 Signal Conditioner for TQ4X2 Probe

Product scope

- Matches the TQ4X2 probe for a 2 mm nominal measuring range.
- Provides 8 mV/ μ m sensitivity through a standard three-wire voltage output.
- Uses the 5 m matched cable ordering option shown for this conditioner.

Manufacturer source

Vibro-Meter IQS 451, 452 and 453 proximity signal conditioner data sheet, document 265-254.

This web-optimized copy contains only verified information relevant to the stated ordering code.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	204-452-000-211	

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204-452-000-211 verified configuration

IQS452 Signal Conditioner for TQ4X2 Probe

Exact product identity

Vibro-Meter 204-452-000-211 is the standard IQS452 three-wire voltage-output conditioner matched to a TQ4X2 probe, 2 mm range and 5 m cable.

Product classification

Manufacturer: Vibro-Meter

Product family: IQS 451 / 452 / 453 Proximity Signal Conditioners

Product type: Proximity Signal Conditioner

Installation attention

204-452-000-211: A conditioner from another IQS range can share the housing but use a different probe, span or sensitivity; match all ordering-table columns before replacement.

204-452-000-211 technical specifications

Verified product data · section 1 of 3

Parameter	Verified value
Ordering number	204-452-000-211
Conditioner model	IQS452
Matching probe family	TQ4X2
Nominal measuring range	2 mm
Output mode	3-wire voltage output
Sensitivity	8 mV/μm
Matched probe cable length	5 m
Version	Standard
Signal conditioner family	IQS 451 / 452 / 453
Measurement principle	Eddy current proximity
Signal method	HF modulator/demodulator
Matching probes	Vibro-Meter TQ 400 series

204-452-000-211 technical specifications

Verified product data · section 2 of 3

Parameter	Verified value
Frequency response	DC to 20 kHz (-3 dB)
Interchangeability	≤5%
Voltage output impedance	500 Ω
Voltage-output short-circuit current	45 mA
Current output at minimum gap	15 mA
Current output at maximum gap	20 mA
Current-output dynamic range	5 mA
Supply voltage	-20 to -32 V
Supply current	13 ±1 mA; 25 mA maximum
Operating temperature	-30 to +70°C
Storage temperature	-40 to +80°C
Humidity	95% maximum, non-condensing

204-452-000-211 technical specifications

Verified product data · section 3 of 3

Parameter	Verified value
Vibration resistance	2 g peak, 10 to 500 Hz
Protection class	IP40
Housing	Anodized injection-moulded aluminium
Standard weight	Approximately 140 g

204-452-000-211 application and integration guide

IQS 451 / 452 / 453 Proximity Signal Conditioners

Applications

- Measures relative shaft vibration and static gap without contacting the rotating surface.
- Conditions proximity signals for turbine, compressor, pump and generator monitoring systems.
- Feeds rack processor modules with a temperature-compensated output scaled to probe movement.

Model-specific integration points

Signal Conditioning

- The HF modulator supplies the excitation needed by the matching proximity transducer.
- Demodulation converts probe impedance change into a dynamic signal proportional to target movement.
- Temperature compensation stabilizes the measurement across the stated operating range.

Cable Matching

- The ordering entry is calibrated for the manufacturer-listed 5 m probe cable length.
- Probe, extension cable and conditioner form one measurement chain whose combined length must be preserved.
- Changing cable length can alter scale and interchangeability even when the connector remains compatible.

Output Protection

- The three-wire voltage output has a 500-ohm output impedance.
- Short-circuit current is limited to 45 mA for output protection.
- Supply wiring must remain between -20 and -32 V with the documented current demand.

204-452-000-211 manufacturer source record

Vibro-Meter IQS 451, 452 and 453 proximity signal conditioner data sheet, document 265-254.

Source used for verification

Vibro-Meter IQS 451, 452 and 453 proximity signal conditioner data sheet, document 265-254.

Manufacturer document location

<https://catalogue.meggittsensing.com/>

Editorial scope

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