



204-453-000-021

IQS453 Signal Conditioner, 10 m TQ4X3 System

Product scope

- Matches the TQ4X3 probe for a 12 mm nominal measuring range.
- Provides 1.33 mV/ μ m sensitivity through a standard three-wire voltage output.
- Uses the 10 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	204-453-000-021	

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204-453-000-021 verified configuration

IQS453 Signal Conditioner, 10 m TQ4X3 System

Exact product identity

Vibro-Meter 204-453-000-021 is the standard IQS453 three-wire voltage conditioner matched to a TQ4X3 probe and the 10 m cable option for 12 mm displacement measurement.

Product classification

Manufacturer: Vibro-Meter

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

Product type: Proximity Signal Conditioner

Installation attention

204-453-000-021: The 10 m cable calibration is part of the ordering identity; replacing it with the 5 m version changes the matched chain and requires engineering review.

204-453-000-021 technical specifications

Verified product data · section 1 of 3

Parameter	Verified value
Ordering number	204-453-000-021
Conditioner model	IQS453
Matching probe family	TQ4X3
Nominal measuring range	12 mm
Output mode	3-wire voltage output
Sensitivity	1.33 mV/μm
Matched probe cable length	10 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

204-453-000-021 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

204-453-000-021 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

204-453-000-021 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

Probe Integration

- The conditioner is paired with the TQ4X3 proximity transducer family.
- The 10 m cable option places more distance between probe location and signal-conditioning enclosure.
- Target material, probe mounting and total matched cable must remain consistent with the original calibration.

Performance

- Nominal voltage sensitivity is 1.33 mV/ μ m across the 12 mm measurement range.
- Frequency response reaches 20 kHz at the documented -3 dB point.
- Output impedance is 500 ohms for the standard three-wire voltage interface.

Storage Conditions

- Storage temperature extends from -40 to +80°C when the conditioner is not powered.
- Humidity must stay at or below 95% and remain non-condensing.
- The 140 g standard housing should be secured against sustained vibration beyond 2 g peak.

204-453-000-021 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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