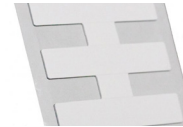
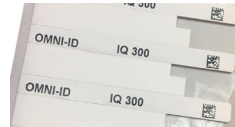


IQ Range – Labels

Featured Comparison Guide



Product Name		IQ 150	IQ 300	IQ 350	IQ 400P
Typical Applications		IT, office, hospital asset tracking Weapons, pipes, road signs Warehouse management	IT, office, hospital & laboratory asset tracking Logistics involving metallic packaging Intermodal logistics	IT and office asset tracking Logistics with metallic packaging Intermodal logistics	Plastic facias's on IT equipment Identification of IT & office hardware
RF Specifications	Frequency Range (MHz)	902-928 (US) 866-868 (EU)	866 – 868 MHz (EU) 902 – 928 MHz (US)	902-928 (US) 866-868 (EU)	860-960 (GS)
	Read Range (m) Fixed reader Handheld reader	Up to 1.6 Up to 1.0	Up to 3.9 Up to 2.0	Up to 3.5 Up to 2.0	Up to 5.0 Up to 2.5
	Material Compatibility	Optimized for all materials	Optimized for metal	Optimized for all materials	Plastic & non-metallic substrates
	IC Type	Impinj Monza R6-P	Impinj-M730	Impinj Monza R6-P	Alien Higgs 3
Physical and Environmental Specifications	Encasement / Material	Synthetic label	Premium Synthetic Label	Synthetic label	Synthetic label
	Size (mm)	55.0 × 12.5 × 1.20	65.0 × 6.0 × 1.31	50.0 × 12.5 × 1.30	46.5 × 12.4 × 0.24
	Weight (g)	0.25	0.27	0.50	0.15
	Operating Temperature (°C) Max Temperature Exposure (°C)	-40 to +85 -40 to +85	-40 to +85 -40 to +85	-40 to +85 -40 to +85	-40 to +85 -40 to +85
	Ingress Protection	IP68	IP68	IP68	IP68
	Shock and Vibration		MIL STD 810-G		MIL STD 810-G
	Attachment	Self Adhesive (std)	Self Adhesive (std)	Self Adhesive (std)	Self Adhesive (std)
Order Codes*		125 – US, EU	EU - CP 14955 US - CP14953	158 – EU, US	055 – GS

* Order option codes are listed on the datasheets.

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Values for Comparison only, please refer to Product Datasheets for full specifications

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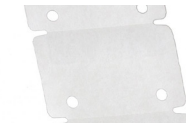
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IQ Range – Labels

Featured Comparison Guide



🔥 High Temperature



🔥 High Temperature

Product Name		IQ 400P HT	IQ 600	IQ 600 GS	IQ 800P	IQ 800P HT
Typical Applications		Manufacturing Automotive paint processes Electronics	Logistics & packaging, Pipe manufacturing & recertification IT, Office, & Hospital tracking	Logistics involving metal produce or packaging. Pipe manufacturing and re-certification. IT, office & hospital assets tracking application.	Plastic RTI's and containers Plastic pallets	Manufacturing Automotive paint processes Electronics
RF Specifications	Frequency Range (MHz)	860–960 (GS)	902-928 (US) 866-868 (EU)	860 - 930 (GS)	860–960 (GS)	860–960 (GS)
	Read Range (m) Fixed reader Handheld reader	Up to 4.0 Up to 2.0	Up to 6.0 Up to 3.0	Up to 6.0 Up to 3.0	Up to 10.0 Up to 5.0	Up to 8.0 Up to 5.0
	Material Compatibility	Plastic & non-metallic substrates	Optimized for all materials	Optimized for metal, plastic & ceramic	Plastic & non-metallic substrates	Plastic & on-metallic substrates
	IC Type	Alien Higgs 3	Impinj Monza R6-P	U-Code8	Alien Higgs 3	Alien Higgs 3
Physical and Environmental Specifications	Encasement / Material	Synthetic label	Synthetic label	Synthetic label	Synthetic label	Synthetic label
	Size (mm)	50.0 × 30.0 × 0.49	96.0 × 24.0 × 1.30	96.0 × 24.0 × 1.30	95.0 × 21.0 × 0.24	85.0 × 55.0 × 0.49
	Weight (g)	0.51	1.50	0.50	0.50	1.50
	Operating Temperature (°C) Max Temperature Exposure (°C)	-40 to +85 -40 to +230	-40 to +85 -40 to +85	-40 to +85 -40 to +85	-40 to +85 -40 to +85	-40 to +85 -40 to +230
	Ingress Protection	IP68	IP68	IP68	IP68	IP68
	Shock and Vibration	MIL STD 810-G		MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
	Attachment	Holes provided for mechanical attachment	Self Adhesive (std)	Self Adhesive (std)	Self Adhesive (std)	Holes provided for mechanical attachment
Order Codes*		166 – GS	133 – US, EU	133 – US, EU	056 – GS	165 – GS

* Order option codes are listed on the datasheets.

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Fit Range – Small for Integration, High Temperature



Featured Comparison Guide



🔥 High Temperature

Fit 210HT



🔥 High Temperature

Fit 220HT



🔥 High Temperature

Fit 400HT



🔥 High Temperature

Fit 400P

Product Name		Fit 210HT	Fit 220HT	Fit 400HT	Fit 400P
Typical Applications		Hand Tool tracking Paint processes in automotive IT assets at point of manufacture Healthcare - sterilization	Small metal tools IT assets Healthcare instruments	Tool tracking including metal hand tools Metal IT assets Autoclaves & high temperature sterilizations	Plastic handles on hand tools Small Plastic tools Surface mounting on plastic components on larger high value assets
RF Specifications	Frequency Range (MHz)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)
	Read Range (m) Fixed reader Handheld reader	Up to 2.0 Up to 1.0	Up to 2.2 Up to 1.4	Up to 4.0 Up to 2.0	Up to 3.0 Up to 2.0
	Material Compatibility	Optimized for Metal	Optimized for Metal	Optimized for Metal	Plastic
	IC Type	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Impinj Monza 4QT
Physical and Environmental Specifications	Finish	Red PCB	Ceramic - Painted Black	Ceramic -Painted Black	Ceramic -Painted Black
	Size (mm)	57.1 x 5.95 x 1.3	7.80 x 6.80 x 2.70 (includes IC bump)	13.10 x 7.80 x 3.10 (includes IC bump)	17.6 x 7.10 x 4.10
	Weight (g)	1.00	0.60	1.50	2.6
	Operating Temperature (°C) ¹ Max Temperature Exposure (°C) ¹	-20 to +85 -20 to +225	-20 to +85 -20 to +235	-20 to +85 -20 to +235	-40 to +75
	Ingress Protection	IP68	IP68	IP68	IP68
	Shock and Vibration		MIL STD 810-G		MIL-STD-810 F
	Attachment	Film adhesive (standard) [For placement only in applications exceeding +85°C]	Film adhesive (standard) [For placement only in applications exceeding +85°C]	Film adhesive (standard) [For placement only in applications exceeding +85°C]	Film adhesive (standard) [For placement only in applications exceeding +85°C]
Order Codes [†]		123 - EU, US	155 - EU, US	124 - EU, US	052 - EU, US

¹ Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings. Maximum constant exposure for Fit 220 & 400 = 700 hours and 12 hours for Fit 210. [†] Order option codes are listed on the datasheets.

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Flex Range – Flexible to Fit Many Applications



Featured Comparison Guide



Product Name		Flex 600	Flex 600 Shell	Flex 600 Shell+
Typical Applications		Office Equipment Light outdoor use Ideal for portal setups	Office Equipment Light outdoor use Ideal for Portal setups	Office Equipment Light outdoor use Ideal for Portal setups
RF Specifications	Frequency Range (MHz)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)
	Read Range (m) Fixed reader Handheld reader	Up to 6.0 Up to 3.0	Up to 7.5 Up to 4.0	Up to 7.7 Up to 4.2
	Material Compatibility	Metal	Optimized for Metal	Optimized for Metal
	IC Type	Monza R6-P	Monza R6-P	Monza R6-P
Physical and Environmental Specifications	Coverstock	White synthetic label with transparent over laminate	White synthetic label in encasing	White synthetic label in encasing
	Size (mm)	50.0 x 12.5 x 3.8	86.0 x 20.0 x 6.75	86.0 x 20.0 x 7.3
	Weight (g)	0.85	7.12	US 9.06 EU 9.08
	Operating Temperature (°C) ¹	-40 to +85	-30 - +65	-30 - +65
	Ingress Protection	IP68	IP68	IP68
	Shock and Vibration			
Attachment		Film adhesive (std)	Mechanical (Std), Foam adhesive (Std)	Mechanical (STD), film option (Option), foam (Option)
Order Codes [†]		EU -CP 14622 US - CP14623	EU CP14525 US CP14528	EU CP14519 US CP14522

¹Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings. Maximum constant exposure for Fit 220 & 400 = 700 hours and 12 hours for Fit 210. [†] Order option codes are listed on the datasheets.

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Flex Range – Flexible to Fit Many Applications



Featured Comparison Guide



Product Name		Flex 1000	Flex 1000 Shell	Flex 1000 Shell+
Typical Applications		Office Equipment Light outdoor use Portals & Returnable Transit Items (RTI)	Office Equipment Light outdoor use Portals & Returnable Transit Items (RTI)	Office Equipment Light outdoor use Portals & Returnable Transit Items (RTI)
RF Specifications	Frequency Range (MHz)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)
	Read Range (m) Fixed reader Handheld reader	Up to 11.0 Up to 6.8	Up to 10.0 Up to 5.6	Up to 5.6 Up to 4.5
	Material Compatibility	Optimized for Metal	Optimized for Metal	Optimized for Metal
	IC Type	U-Code8	U-Code8	U-Code8
Physical and Environmental Specifications	Coverstock	White synthetic label with transparent over laminate	White synthetic label encased	White synthetic label encased
	Size (mm)	45.0 x 20.0 x 3.8	89.0 x 28.0 x 7.75	89.0 x 28.0 x 8.3
	Weight (g)	0.82	US 9.33 EU 9.40	US 11.98 EU 12.05
	Operating Temperature (°C) ¹	-40 to +85	-30 to +65	-30 to +65
	Ingress Protection	IP68	IP68	IP68
	Shock and Vibration			
Attachment		Film adhesive (std)	Mechanical (Std), Foam adhesive (Std)	Mechanical (STD), film (option), foam (option)
Order Codes [†]		US CP14625 EU CP14624	US CP14540 EU CP14357	US CP14534 EU CP14531

¹ Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings. Maximum constant exposure for Fit 220 & 400 = 700 hours and 12 hours for Fit 210. [†] Order option codes are listed on the datasheets.

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Flex Range – Flexible to Fit Many Applications



Featured Comparison Guide



Product Name		Flex 1200	Flex 1200 Shell	Flex 1200 Shell+
Typical Applications		Office Equipment Light outdoor use Portals & Returnable Transit Items (RTI)	Office Equipment Light outdoor use Portals & Returnable Transit Items (RTI)	Office Equipment Light outdoor use Portals & Returnable Transit Items (RTI)
RF Specifications	Frequency Range (MHz)	866 – 928 (GS)	866 – 928 (GS)	866 – 928 (GS)
	Read Range (m) Fixed reader Handheld reader	Up to 13.2 Up to 5.8	Up to 11.2 Up to 6.0	Up to 10.6 Up to 5.0
	Material Compatibility	Optimized for Metal	Optimized for Metal	Optimized for Metal
	IC Type	U-Code8	U-Code8	U-Code8
Physical and Environmental Specifications	Coverstock	White synthetic label with transparent over laminate	White synthetic label with transparent over laminate	White synthetic label encased
	Size (mm)	75.0 x 25.0 x 2.50	123.0 x 33.0 x 6.25	123.0 x 33.0 x 6.8
	Weight (g)	1.66	14.5	20.08
	Operating Temperature (°C) ¹	-40 to +85	-30 - +65	-30 - +65
	Ingress Protection	IP68	IP68	IP68
	Shock and Vibration			
	Attachment	Film adhesive (std)	Mechanical (STD), film (option), Foam (option)	Mechanical (STD), film (option), Foam (option)
Order Codes [†]		CP 13997	CP14546	CP14543

¹ Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings. Maximum constant exposure for Fit 220 & 400 = 700 hours and 12 hours for Fit 210. [†] Order option codes are listed on the datasheets.

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Exo Range – Encased and Heavy-Duty



Featured Comparison Guide

						
		🔥 High Temperature	🌐 Global	🌐 Global	🌐 Global	🌐 Global
Product Name		Exo 400HT	Exo 600	Exo 750	Exo 800	Exo 800P Rigid
Typical Applications		Healthcare sterilization processes Manufacturing Automotive, post paint processes	Logistics & Postal Industries. Automotive. Retail & warehousing	Automotive Supply Chain. Logistics and Postal. Manufacturing tote tracking	Manufacturing tote tracking. Logistics and Postal. Retail supply chain	Plastic RTIs and containers Plastic pallets Non-metallic industrial assets
RF Specifications	Frequency Range (MHz)	902-928 (US) 866-868 (EU)	860–930 (GS)	860–930 (GS)	860–930 (GS)	860–930 (GS)
	Read Range (m) Fixed reader Handheld reader	Up to 4.0 Up to 2.0	Up to 6.0 Up to 3.0	Up to 7.0 (EU) Up to 11.0 (US) Up to 3.5 (EU) Up to 5.0 (US)	Up to 8.0 Up to 4.0	Up to 8.0
	Material Compatibility	Optimized for Metal	Optimized for Metal	Optimized for Metal	Optimized for Metal	Optimized for Plastic
	IC Type	Alien Higgs 3	Impinj Monza 4QT	Impinj Monza 4QT	Impinj Monza 4QT	Alien Higgs 3
Physical and Environmental Specifications	Encasement²	Thermoplastic	ABS Rigid Plastic	ABS Rigid Plastic	ABS Rigid Plastic	ABS Rigid Plastic
	Size (mm)	370 × 14.0 × 7.5	80.0 × 15.0 × 12.5	51.0 × 48.0 × 12.6	110 × 25.0 × 12.9	105 × 36.0 × 3.5
	Weight (g)	5.7	12.5	25.6	26.0	11.6
	Operation Temperature (°C)	–20 to +85	–40 to +85	–40 to +85	–40 to +85	–20 to +85
	Max Temperature Exposure (°C)	–20 to +235	–40 to +85	–40 to +85	–40 to +85	–20 to +85
	Ingress Protection	IP68	IP68	IP68	IP68	IP68
	Shock and Vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
	Attachment	Mechanical (std) 2 x Ø3mm holes	Mechanical (std.) Premium foam adhesive (option)	Mechanical (std.) Premium foam adhesive (option)	Mechanical (std.) Premium foam adhesive (option)	Rivet/Screw(not included) Premium foam adhesive (option)
Order Codes[†]		144 – EU, US	061 – GS	078 – GS	077 – GS	104 – GS

[†] Order Option Codes are listed on the datasheets. 1 Prolonged exposure to temperatures over 70°C may result in minor dimensional change to the case, attachment by rivets instead of adhesive is recommended. 2 See datasheet for Transparent option

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Exo Range – Encased and Heavy-Duty



Featured Comparison Guide



🌐 Global



🌐 Global



🌐 Global

Product Name		Exo 1000	Exo 2000	Exo 3000
Typical Applications		Manufacturing tote tracking Logistics and Postal Retail supply chain	Container tracking for yard management. Cargo tracking. Defense asset management	Cargo and container tracking. Heavy equipment tracking and maintenance. Location identification in lay down zones
RF Specifications	Frequency Range (MHz)	860–930 (GS)	860–930 (GS)	860–930 (GS)
	Read Range (m) Fixed reader	Up to 10.0	Up to 20.0	Up to 33.0
	Handheld reader	Up to 8.0	Up to 9.0	Up to 20.0
	Material Compatibility	Optimized for Metal	Optimized for Metal	Optimized for Metal
IC Type		Impinj Monza 4QT	Impinj Monza 4QT	Impinj Monza 4QT
Physical and Environmental Specifications	Encasement	ABS Rigid Plastic	PC ABS blend	PC ABS blend
	Size (mm)	110 × 25.0 × 12.7	139 × 53.0 × 14.9	174 × 70.0 × 17.76
	Weight (g)	18.3	64.0	85.0
	Operation Temperature (°C)	–40 to +85 ¹	–40 to +85	–40 to +85
	Max Temperature Exposure (°C)	–40 to +85 ¹	–40 to +100	–40 to +100
	Ingress Protection	IP68	IP68	IP68
	Shock and Vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
	Attachment	Mechanical (std) 2 x Ø3mm holes	Manual (std) Premium Foam adhesive (option)	Mechanical (standard) Premium foam adhesive (option)
Order Codes [†]		162 – GS	152 – GS	153 – GS

[†] Order Option Codes are listed on the datasheets. ¹ Prolonged exposure to temperatures over 70°C may result in minor dimensional change to the case, attachment by rivets instead of adhesive is recommended. ² See datasheet for Transparent option

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DS001208-13 | 062019

Sense^{IoT} Range – Intelligent, Powerful IoT Devices



Product Name

Sense^{IoT} Fit 400

Sense^{IoT} Asset

Sense^{IoT} Asset

Sense^{IoT} Asset XL

Sense^{IoT} Lite

Typical Applications

Efficient operation, equipment monitoring in-house or in transit, data centers and metal IT assets – both in terms of tracking and temperature monitoring, embedding the tag into metal components, monitoring mechanical plants

Hospitals, manufacturing facilities, warehouse management, cold chain condition monitoring, container management, facilities management, ports construction & mining, asset management

Hospitals, manufacturing facilities, warehouse management, container management, facilities management, ports construction and mining, asset management, yard management

Container management, facilities management, ports construction & mining, field operations, asset management, worker accountability, fleet monitoring, yard management

Asset tracking, personnel tracking, real time location

Radio Protocol

EPC Class 1 Gen2v2

Bluetooth 4.2 (2.45GHz) +8dBm to -15dBm NFC (Beacon configured via NFC)

Bluetooth 5.0 (QUUPPA proprietary channels or BLE advertising channels), +6dBm to -24dBm

LoRaWAN NFC (beacon configured via NFC)

Bluetooth 5.0 (Quuppa proprietary channels and BLE advertising channels), +6dBm to -24dBm

Frequency Range

866-868 (EU) | 902-928 (US)

2.4GHz

2.4GHz

868MHz (EU) | 915MHz (US)

2.4GHz

Battery Type

N/A

Sealed Prismatic battery, non-replaceable

Sealed prismatic battery, non-replaceable

Sealed Prismatic battery, non-replaceable

Replaceable CR2032

Battery Capacity

N/A

1.2Ah

1.2Ah

3.2Ah

225mAh

Battery Life

N/A

Up to 5 years, 5% motion, 10 second beacon rate
Tx power set to +8dBm

Up to 5 years, Device moving 10 hours/day (1Hz beacon rate) Device stationary 14 hours/day (0.1Hz beacon rate). TX power set to 0dBm

Up to 3 years, DBR set to 24h, 1 movement per day, DOP = 3 (GPS accuracy 7meters)

1 year under following conditions - (device moving 10 hours/day (1Hz beacon rate), device stationary 14 hours/day (0.1Hz beacon rate), Tx power set to 0dBm

Read Range

Fixed reader: Up to 3.5m
Handheld reader: Up to 2 m (6.6 ft)

200 m+ depending on reading device

Up to 200m+ depending On Quuppa locator type used

Range 3–4 km urban — can be up to 15 km line of sight

Up to 200m+ depending on Quuppa locator type

Default Beacon Rate

N/A

Configurable from 1–10 seconds

Configurable

Configurable from 1–254 hours

Configurable

Alarm Beacon Rate

N/A

Configurable from 0–10 seconds (where 0 is off)

N/A

Configurable from 0–254 minutes (where 0 is off)

N/A

Sensor Period

N/A

N/A

N/A

N/A

N/A

Sensors

Temperature

Accelerometer, temperature

Accelerometer (movement), button, LED

GPS (Location) accelerometer temperature

Button, accelerometer

LED Indicator

No

Yes (Bi color LED)

Yes (Bi color LED)

Yes (Bi color LED)

Yes (Bi color LED)

Temperature Sensor Range

-40°C to +85°C

-20°C to +60°C with an accuracy of +/-2°C

N/A

-20°C to +60°C with an accuracy of +/-2°C

N/A

Note: All above Values are for comparison only, Please refer to product datasheets for full specifications.

Continues overleaf

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Sense^{IoT} Range – Intelligent, Powerful IoT Devices



Product Name

Sense^{IoT} Fit 400

Sense^{IoT} Asset

Sense^{IoT} Asset

Sense^{IoT} Asset XL

Sense^{IoT} Lite

Configurable	N/A	Tx power, tag type (GATT Profile), accelerometer threshold, default beacon rate, alarm beacon rate, high temp threshold, low temp threshold, sleep/awake status	Tx power, accelerometer threshold (rate & sensitivity), default beacon rate (transmit rate), Rx rate, buzzer volume	Data rate, accelerometer threshold, default beacon rate, alarm beacon rate, high temperature threshold, low temperature threshold, gnss max lock time, gnss min lock time, dop threshold, tag status (asleep/awake)	Tx power, accelerometer threshold (rate & sensitivity), default beacon rate (transmit rate), Rx rate
Supported Profiles	N/A	BLE (Generic, iBeacon, Eddystone UUID)	Quuppa	N/A	Quuppa
Construction	Painted black, optimized for metal	Overmolded durable, shock resistant TPE (thermoplastic elastomer)	Overmolded durable, shock resistant TPE (thermoplastic elastomer)	Overmolded durable, shock resistant TPE (thermoplastic elastomer)	2-part durable PC/ABS case. Available in Wrist strap, Belt Clip, Lanyard, adhesive or rivet attachment options
Size (mm)	13.1 x 8.05 x 3.1 including IC bump Tolerance +/-0.5	95.1 x 34.2 x 2.1	95.1 x 34.2 x 2.1	113.4 x 58.3 x 24.3	Wrist 35 dia x 116, rivet 35 dia x 68.4, without Mechanical Flange 44.4 x 20 x 14.2, cable Tie 74.4 x 24 x 14.2, lanyard 35 dia x 14.2
Weight (g)	1.4	59	59	134	
Attachment	Film adhesive (included) for placement only in applications exceeding +85°C2	Mechanical (std), cable tie attachment accessory (optional), magnet attachment (optional), without mechanical flange (optional)	Mechanical (std), cable tie attachment accessory (opt.), magnet attachment (opt.), without mechanical flange (optional)	Mechanical (std), cable tie attachment accessory (optional), magnet attachment (optional), without mechanical flange (optional)	Rivet, cable tie, lanyard, wrist strap, without mechanical flange
Operating Temperature	-40°C to +85°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Temperature Alarm	Up to +125°C	N/A	N/A	Yes	N/A
Max Temperature Exposure¹	220°C short term 168 hrs 150°C long term 700 hrs	+60°C	+60°C	+60°C	+60°C
IP Rating	IP68	IP68	IP68	IP68	IP68
Shock and Vibration	MIL-STD-810-G	MIL-STD-810-G	MIL-STD-810-G	MIL-STD-810-G	N/A
IC Type (chip)	Magnus S3: M3D / M3E	N/A	N/A	N/A	N/A
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year
Certifications	CE, ROHS, ATEX Certified (Optional) CID1/D2 Certified (optional)	CC, FCC, ROHS, WEEE, NFC, BLE	CC, FCC, ROHS, WEEE, Quuppa	CC, FCC, ROHS, WEEE	CC, FCC, ROHS, WEEE, Quuppa

Note: All above Values are for comparison only, Please refer to product datasheets for full specifications.

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