

Dakota NDT

an Elcometer company

Ultrasonic Bolting Equipment, Transducers & Accessories - List

Models:	Comments	Part #
BT1-DL  Formerly: MiniMax	Includes new version 2.0 hardware platform, and temperature connector for use with pt# A-156-8001.	Z-156-0008
BT2-DL  Formerly: Max II	Includes temperature connector for use with pt# A-156-8001.	Z-197-0002
MultiMax 	4 Channel module – Multiple modules can be combined for additional channels, and controlled using MultiUI interface software. Includes temperature connector for use with pt# A-156-8001.	Z-226-0001

Includes

MiniMax / BT1-DL Unit, 3 AA Batteries, 4 oz. Bottle of Couplant, USB Type A to Type C Transfer Cable, Carrying Case, 10 Lemo to Microdot Transducer cable, PC Utility Software (download from website), Operation Manual and Certification.

Max II / BT2-DL Unit, Lithium Pack, 4 oz. Bottle of Couplant, USB Type A to Type B Transfer Cable, Carrying Case, 10 Lemo 00 to Microdot Transducer Cable, PC Utility Software (download from website), Operation Manual and Certification.

MultiMax Module, USB Type A to Type C Transfer/Power Cable, Carrying Case, PC Interface Software (download from website), Operating Manual and Certification

Temperature Sensors		
Part #	Description	Comments
A-156-8001	Temperature Sensor w/6' cable	MINI-MAX/BT1-DL & MAX II/BT2-DL

Non-Magnetic Single Element Contact Transducers					
					
Fastener Material Types: All metals					
Note: Side or Top entry connector option available					
Diameter	Part #	MHz	Comments	Connector	Entry
1/8"	T-5903-2875	5	Model – FCSL1250T	Microdot	Top
1/8"	T-4903-2875	5	Model – FCSL1250	Microdot	Side
1/8"	T-5903-4875	10	Model – FCSL1210T	Microdot	Top
1/8"	T-4903-4875	10	Model – FCSL1210	Microdot	Side
1/4"	T-5023-1855	2.25	Model – FCR2525T	Microdot	Top
1/4"	T-4023-1855	2.25	Model – FCR2525	Microdot	Side
1/4"	T-5023-2855	5	Model – FCR2550T	Microdot	Top
1/4"	T-4023-2855	5	Model – FCR2550	Microdot	Side
1/4"	T-5023-4855	10	Model – FCR2510T	Microdot	Top
1/4"	T-4023-4855	10	Model – FCR2510	Microdot	Side
1/2"	T-5043-1855	2.25	Model – FCR5025T	Microdot	Top
1/2"	T-4043-1855	2.25	Model – FCR5025	Microdot	Side
1/2"	T-5043-2855	5	Model – FCR5050T	Microdot	Top
1/2"	T-4043-2855	5	Model – FCR5050	Microdot	Side
3/4"	T-895-0607	2.25	Model – FCB7525	Potted	Top
Diameter Reference	Comments			Wearface Diameter	Crystal Diameter
1/8"				.230"	1/8"
1/4"				.355"	1/4"
1/2"				.605"	1/2"
3/4"	Glue-On Contact Probe (MultiMax) – OD 1.10"			.875"	3/4"
Note: Other configurations, connectors, and styles available upon request for an additional charge. These items are custom builds only.					

Magnetic Single Element Contact Transducers



Fastener Material Types: All metals

Diameter	Part #	MHz	Connector	Entry
1/8"	T-700-2405	5	Microdot	Top
1/8"	T-700-4405	10	Microdot	Top
1/4"	T-702-1405	2.25	Microdot	Top
1/4"	T-702-2405	5	Microdot	Top
1/4"	T-702-4405	10	Microdot	Top
3/8"	T-703-1405	2.25	Microdot	Top
3/8"	T-703-2405	5	Microdot	Top
1/2"	T-704-1405	2.25	Microdot	Top
1/2"	T-704-2405	5	Microdot	Top
3/4"	T-706-1405	2.25	Microdot	Top
3/4"	T-706-2405	5	Microdot	Top
Diameter Reference	Outside Diameter	Wearface Diameter	Crystal Diameter	
1/8"	.380"	.200"	.125"	
1/4"	.750"	.320"	.250"	
3/8"	.810"	.470"	.375"	
1/2"	1.00"	.630"	.500"	
3/4"	1.21"	.820"	.750"	

Note: Other configurations, connectors, and styles available upon request for an additional charge. These items are custom builds only.

1/8" Magnetic	1/4" Magnetic	3/8" Magnetic
1/2" Magnetic	3/4" Magnetic	

Glue On Single Contact Crystals					
Fastener Material Types: All metals					
Glue & Solvent: Loctite 425 & solvent 76820 X-NMS or equivalent.					
Note: For use on fasteners with limited elongation.					
Dimensions	Part #	MHz	Comments	Connector	Entry
1/10"x1/10"	A-000-9003	7.5	Lot of 12 pcs	N/A	N/A
1/8"x1/8"	A-000-9001	7.5	Lot of 12 pcs	N/A	N/A
1/8"x1/8"	M-001-5140	7.5	Lot of 100 pcs w/coc	N/A	N/A
Notes: M-001-5140: K81 crystal (Mat'I – Approx. 35% Lead, 60% Niobium, 5% Barium).					
Supplied with certificate of compliance with traceable lot ID and order #.					
*Additional frequencies & dimensions available as a custom build on request.					

Accessory Items

Instrument & Carrying Cases



Part #	Description	Comments
F-149-0001	MINI-MAX/BT1-DL Instrument Case	Nylon
A-149-6002	MINI-MAX / BT1-DL Instrument Case (v2.0)	Rubber
F-250-0006	MAX II / BT2-DL Instrument Case	Nylon
A-100-6003	Plastic Carrying Brief Case	MINI-MAX/BT1-DL
A-250-6002	Plastic Carrying Case	MAX II/BT2-DL

Transducer Cables



Lemo 00 M

Lemo 00 F

Microdot

Custom Lengths & High Temp/Wear Teflon: Available on request

Part #	Description	Comments
N-104-0020	4' Single Lemo 00 to Microdot	All Bolting Gauges
N-106-0020	6' Single Lemo 00 to Microdot	All Bolting Gauges
N-110-0020	10' Single Lemo 00 to Microdot	All Bolting Gauges
N-110-6020	10' Single Lemo 00 to Microdot (High Temp, High Wear Teflon)	All Bolting Gauges
N-120-0020	20' Single Lemo 00 to Microdot Single	All Bolting Gauges
N-120-6020	20' Single Lemo 00 to Microdot (High Temp, High Wear Teflon)	All Bolting Gauges
N-320-0000	20' Lemo 00 2 pin to Lemo00 2 pin	MINI-MAX/BT1-DL
N-104-0090	4' Single Lemo 00 to Spring Loaded Center Pin Fixture – Recessed Cap Bolts	All Bolting Gauges
N-704-0090	4' Single Lemo 00 to Spring Loaded 2 Pin fixture 1/4" Spacing	All Bolting Gauges
N-704-0094	4' Single Lemo 00 to Spring Loaded 2 Pin fixture 1/8" Spacing	All Bolting Gauges
A-000-9002	1/8" Magnetic Spring Loaded Center Pin Fixture – Hex Head Bolts	All Bolting Gauges
Custom	All Configurations	All Bolting Gauges

Couplant



Part #	Description	Comments
V-000-0005	4 oz bottle (low viscosity)	Standard
V-000-0001	4 oz bottle	
V-000-0003	12 oz bottle	
V-000-0004	1 gallon	

Calibration Blocks		
		
Part #	Description	Material Type
X-000-0020	Glass Calibration block (1", 2" , & 3")	Glass
X-000-0011	3" Steel Calibration Bar	4140 Steel
X-000-0010	3" & 6" Steel Calibration Bars	4140 Steel

Misc. Accessories		
		
Part #	Description	Comments
A-167-5004	High Speed Shut Off Box (control a pump) – Direct Hardware	MAX II/BT2-DL
N-120-0400	20' Lemo 1 (5 pin) to Lemo 00 cable	MAX II/BT2-DL

Data Cables & Adapters		
Part #	Description	Comments
N-306-0010	6 foot RS232 (DB-9 to lemo)	MINI-MAX
N-402-0510	USB to Serial Adapter	MINI-MAX
N-606-0530	USB Type 1 to Type 2 female	MAX II/BT2-DL
N-110-0470	10' Lemo 1 5pin to BNC analog out cable	MAX II/BT2-DL
N-110-0410	10' Lemo 1 to 5pin DB9F serial out cable	MAX II/BT2-DL
N-003-0330	USB-C to USB TYPE A 3' data cable	MINI-MAX/BT1-DL
N-306-0416	Universal cable (5 pin Lemo 1 to BNC, 6' DB9, & 2 6' Alarm out)	MAX II/BT2-DL

Battery Packs & Chargers		
Part #	Description	Comments
B-040-3200	Lithium ion battery pack	MAX II/BT2-DL
B-030-0000	External smart battery charger	MAX II/BT2-DL

Line Power Adapters		
Part #	Description	Comments
N-250-0001	Power adaptor (12 volts @ 2 amps w/6" cable)	MAX II/BT2-DL
N-506-0060	Universal Power Cord	MAX II/BT2-DL