

GE  
Sensing & Inspection Technologies

# Thickness Probes

## Ultrasonic Testing





TC-560



DM-401/DM-411



FH2E-D



FH2E-WR



DA-303



DP-104



HT-400/400A



DA-312



DA312B29 and DA312B16

Application and Description	Model	Probe Cable
TopCOAT and AUTO-V with DMS 2 TC only	TC-560	KBA-531A/531TC
General purpose/side mount connector	DM-401-GP*	KBA-533/533A
General purpose/same as DM-401 only with remote send key on top of probe	DM-401-GP-REM*	KBA-533/533A
General purpose/same as DM-401 only with connectors on top	DM-411-GP*	DA-233
Pit detection and limited access/small diameter fingertip	FH2E-M	Potted
PIT detection and limited access/fingertip	FH2E	Potted
PIT detection and limited access/fingertip	FH2E-D*	Potted
Same as FH2E only with remote send key on top of probe	FH2E-D-REM*	Potted
Wear resistant case/same as FH2E	FH2E-WR	Potted
Wear resistant case/same as FH2E-D	FH2E-D-WR*	Potted
Limited access/fingertip/right angle x-talk barrier	FH2E-RA	Potted
Limited access/fingertip/right angle x-talk barrier	FH2E-D-RA*	Potted
Penetration/side mount connector	DA-303	KBA-533/533A
High penetration side mount connector	DP-104	KBA-532
High temp/for use with DM4 family of instruments	HT-400***	KBA-535/536
High temp/for use with DMS family of instruments	HT-400A***	KBA-535/536
Thin wall and small radius/square fingertip case/with removable cable	DA-312	KBA-532
Thin wall external pitting access/small diameter fingertip	KBA-525	Potted
Thin wall external pitting access/small diameter fingertip	DA-312B16**	Potted
External pitting access/small tip pencil style body	DA-312B29**	Potted
4-inch extension tube for HT-400	ET-103	
7-inch extension tube for HT-400	ET-104	
Steel bell housing for HT-400	BH-342	

\*DIALOG Intelligent Probes when used with DM4E, DM4, DM4 DL or DMS 2

\*\*2-PT calibration required on DM4E, DM4, and DM4 DL

\*\*\*Temp cycled per GE instruction/limited measurement range

Contact Diameter	Frequency	Measuring Range in Steel	Temperature Range
.625 in (15.9 mm)	5	Metal : .060-8.00 in (1.5-200 mm) Coating: .002-0.80 in (0.5-2 mm)	<130°F (< 54°C)
.700 in (17.8 mm)	5	.060-8.0 in (1.5-200 mm) DM4 Dual-Multi 0.120-0.800 in (3-20 mm)	<300°F (<148°C)
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.700 in (17.8 mm)	5	.060-8.0 in (1.5-200 mm) DM4 Dual-Multi 0.120-0.800 in (3-20 mm)	<300°F (<148°C)
.280 in (7.1 mm)	7.5	.030-1.0 in (.75-25 mm)	<130°F (<54°C)
.380 in (9.6 mm)	7.5	.030-2.0 in (.75-50 mm)	<130°F (<54°C)
.380 in (9.6 mm)	7.5	.030-2.0 in (.75-50 mm)	<130°F (<54°C)
.380 in (9.6 mm)	7.5	.030-2.0 in (.75-50 mm)	<130°F (<54°C)
.550 in (14 mm)	7.5	.030-2.0 in (.75-50 mm)	<130°F (<54°C)
.550 in (14 mm)	7.5	.030-2.0 in (.75-50 mm)	<130°F (<54°C)
.380 in (9.6 mm)	7.5	.030-2.0 in (.75-50 mm)	<130°F (<54°C)
.380 in (9.6 mm)	7.5	.030-2.0 in (.75-50 mm)	<130°F (<54°C)
.650 in (16 mm)	2	.200-12.00 in (5-300 mm)	<140°F (<54°C)
1.25 in (31.8 mm)	1	.200 in (5 mm) minimum	<130°F (<54°C)
.550 in (12.7 mm)	5	.040-10.0 in (1.0-25 mm)	<1000°F (<540°C)
.550 in (12.7 mm)	5	.040-10.0 in (1.0-25 mm)	<1000°F (<540°C)
.300 in (7.5 mm)	10	.025-2.0 in (.6-50 mm) DM4 Dual-Multi .080-0.500 in (2-12 mm)	<140°F (<60°C)
.200 in (5 mm)	10	.025-1.0 in (.6-25 mm)	<130°F (<54°C)
.120 in (3 mm)	10	.030-0.500 in (.7-12 mm)	<140°F (<60°C)
.120 in (3 mm)	10	.030-0.500 in (.7-12 mm)	<140°F (<60°C)

Specifications are subject to change without notice.

# Probes to Meet all Demanding Applications

GE offers a complete line of dual element probes compatible with its D-Meter line of ultrasonic thickness gauges (DMS and DM4 family). Standard probes are readily available to satisfy a wide range of remaining wall thickness applications, including high-temperature, throughcoating, erosion/corrosion, thin materials, areas of limited access, tough-to-penetrade materials (coarse grained/non-metals), external pitting, wear-resistance, boiler tubing, small diameter piping/tubing, and most all general purpose applications.

DIALOG Intelligent Probes are automatically recognized by the DM4 or DMS 2 family of instruments for quick setup, best performance and test documentation.

If standard probes will not satisfy your requirements, our applications lab is fully equipped and staffed to offer practical solutions to your special application needs. Special probes are quoted, developed and delivered on a timely basis directly through the applications lab.

## Cables and Connections



Cable	Code	Length
KBA-533	A --- A	1.2 m (4 ft)
KBA-534	A --- C	1.2 m (4 ft)
DA 233	A --- B	1.2 m (4 ft)
KBA 535	A --- E	1.2 m (4 ft)
KBA 536	A --- D	1.2 m (4 ft)
KBA 531A	A --- F	1.2 m (4 ft)

## Couplants and Calibration Blocks

Name	Type	Descriptions
<b>Exosen</b>	General Purpose Fluid	Water soluble, non-toxic and non-flammable, Exosen is available in five standard viscosities: Exosen 10, 14, 20, 30 and 40.
<b>Hitempco</b>	Ambient to High Temp	Medium viscosity paste in 2 oz tube. Temperature range up to 500°F (260°C).
<b>ZGM</b>	High-temperature coupling paste	High viscosity paste, with solid filling, specially made for wall thickness measurements on hot parts; temperature range: +200°C to +600°C (+392°F to +1112°F); in 100g tubes.
<b>SLC-70</b>	Thick, Irregular Surface	Highly attenuative paste (honey consistency) in 4 oz jar.
<b>B-320</b>	4-Step Carbon Steel Step Block	Steps at .25 in, .50 in, .75 in and 1.0 in
<b>B-310</b>	5-Step Carbon Steel Step Block	Steps at .100 in, .200 in, .300 in, .400 in and .500 in
<b>B-004</b>	2-Step Check Block	0.100 and 1.00 Block (303 stainless steel—not certified)



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