

Dual Element Transducers

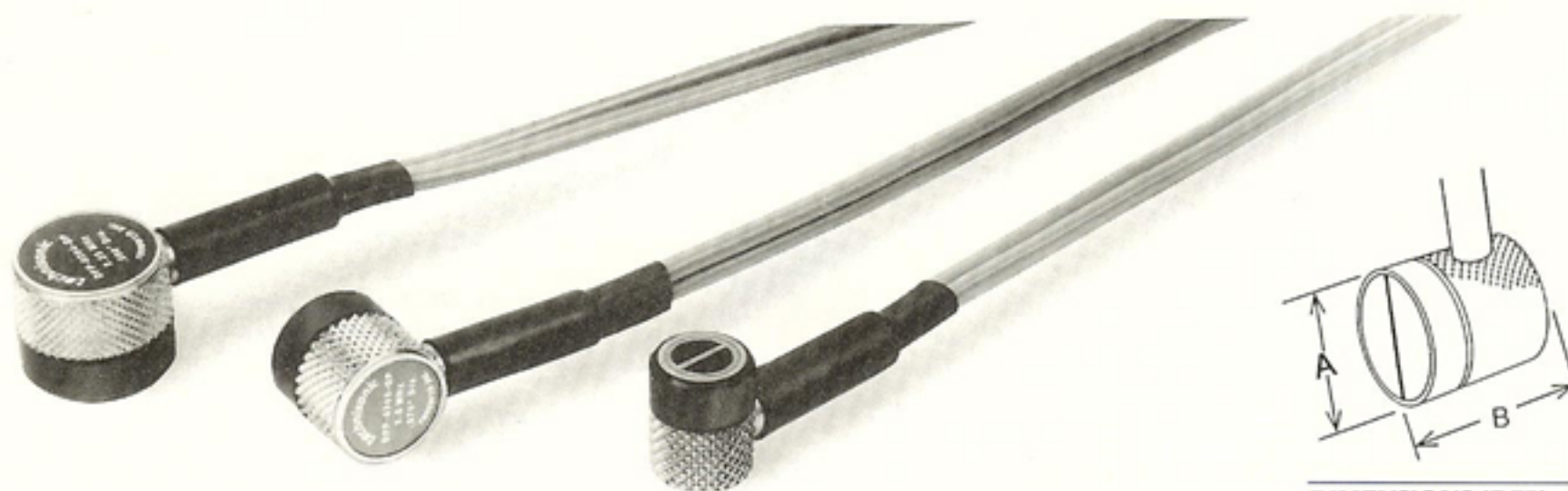
Technisonic's **Dual Element Fingertip Transducers** are designed for the detection of near surface discontinuities and thin wall sections. Each transducer is actually two transducers constructed within a single housing, each side electrically and acoustically isolated from each other. Their small size makes them ideally suited for limited access areas or small

diameter pipe inspection. They are designed to provide optimum performance on all commercially available flaw detectors and certain thickness gauges. Constructed within stainless steel housings with surface knurling, these transducers are very durable and provide a comfortable non-slip grip. Color coded caps make these transducers readily identifiable.

Dual Fingertip Potted Transducers (DFP) are provided with an integral six foot long cable terminated with BNC connectors. This model is our most popular due to its size flexibility and lower cost. Special configurations or curved delays for pipe inspection are also available.

Dual Fingertip Potted (DFP)

Frequency (MHz)	Element Diameter		
	.250"	.375"	.500"
1.0	—	—	DFP-0104-GP
2.25	DFP-0202-GP	DFP-0203-GP	DFP-0204-GP
3.5	DFP-0302-GP	DFP-0303-GP	DFP-0304-GP
5.0	DFP-0502-GP	DFP-0503-GP	DFP-0504-GP
10.0	DFP-1002-GP	DFP-1003-GP	DFP-1004-GP



DIMENSIONS (DFP)

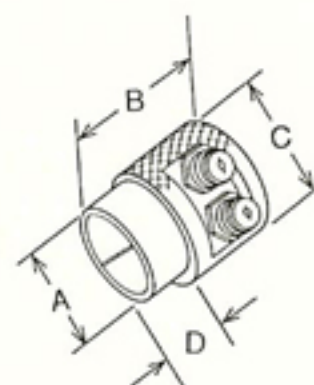
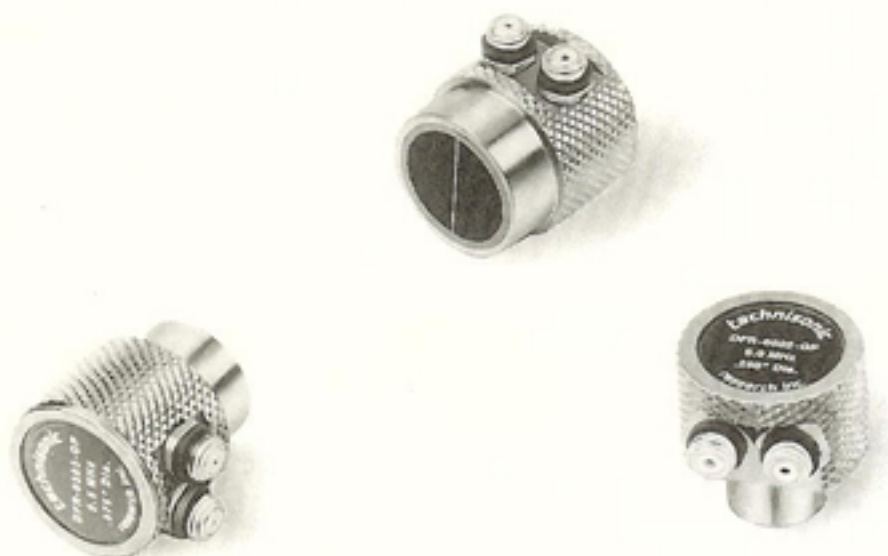
Element	A	B
.250"	.46"	.60"
.375"	.59"	.60"
.500"	.72"	.60"

DFP series is available with composite element on request.

Dual Fingertip Removable Transducers (DFR) are supplied with standard microdot connectors to allow for simple field replacement of a damaged cable. The most common cable for this transducer line is our dual microdot to BNC (DMB-6) which is six (6) feet long and must be ordered separately. Special configurations or curved delays are available.

Dual Fingertip Removable (DFR)

Frequency (MHz)	Element Diameter		
	.250"	.375"	.500"
1.0	—	—	DFR-0104-GP
2.25	DFR-0202-GP	DFR-0203-GP	DFR-0204-GP
3.5	DFR-0302-GP	DFR-0303-GP	DFR-0304-GP
5.0	DFR-0502-GP	DFR-0503-GP	DFR-0504-GP
10.0	DFR-1002-GP	DFR-1003-GP	DFR-1004-GP



DIMENSIONS (DFR)

Element	A	B	C	D
.250"	.38"	.73"	.69"	.25"
.375"	.52"	.75"	.69"	.25"
.500"	.66"	.75"	.75"	.25"

DFR series is available with composite element on request.

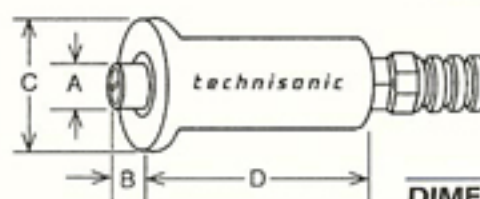
Dual Element Transducers

Technisonic offers a complete line of **Dual Element Transducers** suitable for inspection of materials at ambient or high temperature. These transducers are designed for the detection of near surface discontinuities or thin wall sections. Each transducer is actually two transducers constructed within

a single stainless steel housing, electrically and acoustically isolated from each other. Each half is angled toward the other with one side acting as the transmitter and the other the receiver. This produces a better signal/noise ratio than can be achieved by single element transducers.

The **Removable Bell Housing Transducer (DRB)** is offered in both ambient and high temperature styles which operate up to 550°F. This transducer is designed to operate on all commercially available flaw detectors and can also be ordered for many digital thickness gauges. A removable bell housing is provided for operator comfort.

Cable must be ordered separately. Please be sure to order Bell Housing Cables, which include a strain relief. Refer to cable chart on page 16.



DRB .375" Diameter		
Frequency (MHz)	Ambient Temperature	High Temperature*
2.25	DRB-0203-GP	DRBHT-0203-GP
5.0	DRB-0503-GP	DRBHT-0503-GP

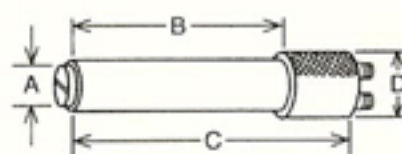
* Contact Time: 10 seconds @ 500°F, then cool to ambient temperature.

DIMENSIONS (DRB)				
Element	A	B	C	D
.375"	.52"	.25"	1.35"	2.40"

DHT up to 550°F*		
Frequency (MHz)	Element Diameter	
	.37"	.50"
2.25	DHT-0203-500	DHT-0204-500
5.0	DHT-0503-500	DHT-0504-500

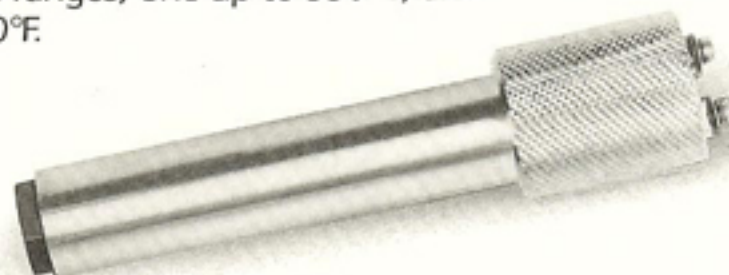
DHT up to 900°F*		
2.25	DHT-0203-900	DHT-0204-900
5.0	DHT-0503-900	DHT-0504-900

* Contact Time: 10 seconds @ 500°F, 5 seconds @ 900°F, then cool to ambient temperature.

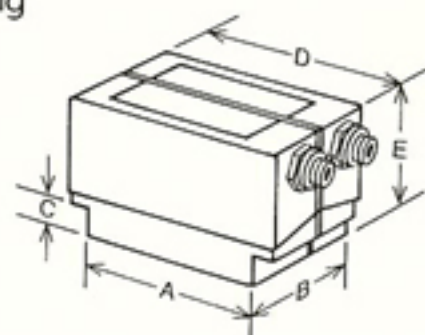
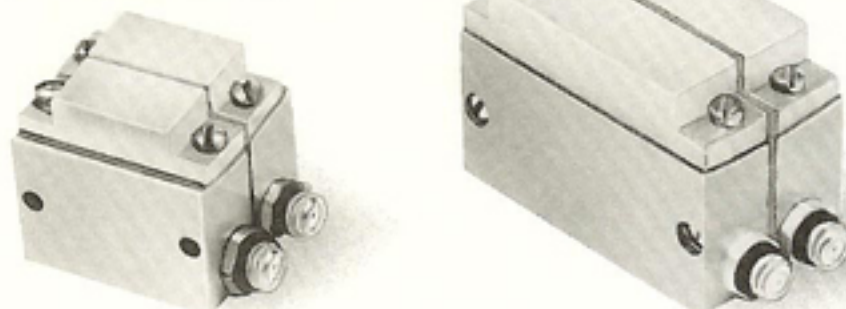


DIMENSIONS (DHT)				
Element	A	B	C	D
.375"	.48"	3.00"	4.00"	.75"
.500"	.61"	3.00"	4.00"	.75"

The **High Temperature Transducers (DHT)** are best suited for limited access areas or the inspection of insulated pipes or vessels. This transducer is designed to operate on all commercially available flaw detectors and is offered in two temperature ranges, one up to 550° F, and the other up to 900°F.



The **Removable Delay Transducers (DR)** are ideal for scanning large areas where there are no space restrictions. They have been designed with replaceable delays which allow for greater flexibility. The delays can be replaced due to wear, they can be curved for pipe inspection, or replaced with high temperature delays for testing materials up to 450° F. This transducer is provided with a set of standard delays and microdot connectors. Color coded caps make these transducers easy to identify.



Standard Duals (DR)		
Frequency (MHz)	Element Dimensions	
	.50" x .50"	.50" x 1.00"
1.00	DR-010404-GP	DR-010408-GP
2.25	DR-020404-GP	DR-020408-GP
5.00	DR-050404-GP	DR-050408-GP

Replacement Standard Delays		
Frequency (MHz)	.50" x .50"	.50" x 1.00"
1.00	DR-D-0404	DR-D-0408
2.25	DR-D-0404	DR-D-0408
5.00	DR-D-0404	DR-D-0408-5

Replacement High Temperature Delays		
Frequency (MHz)	.50" x .50"	.50" x 1.00"
1.00	DR-DHT-0404	DR-DHT-0408
2.25	DR-DHT-0404	DR-DHT-0408
5.00	DR-DHT-0404	DR-DHT-0408-5

DIMENSIONS (DR)					
Element	A	B	C	D	E
.5" x .5"	.52"	.70"	.20"	.80"	.85"
.5" x 1.0"	1.05"	.70"	.25"	1.50"	.99"