

QUASAR®

QUASAR TRANSDUCER

General Description:

The Magnaflux Quasar Transducer is a proprietary device manufactured by Magnaflux Quasar specially designed to perform a dual function in Quasar systems. It transforms electrical energy in the form of an analog signal into mechanical energy which excites the object under test. It also transforms mechanical energy from the resonating object into an analog signal to be received by the Transceiver, converted to digital data and sent to the Control Computer.

The Transducer is comprised of a piezoelectric crystal (PZT) bonded to a silicon carbide rod within a stainless steel and brass body. The PZT, internal electrical and mechanical connections, and barrel form an electrical circuit tuned for optimal performance in the typical resonant frequency range found in Magnaflux Quasar applications.



Electrical Specifications:

SMA male connector (RF)

Mechanical Specifications:

7/16 X 20 UNS-2A Threaded Barrel
1.552 inches overall length excluding SMA
0.312 inches body diameter (stainless)
0.623 inches base diameter (brass)

Environment Requirements (operational)

Temperature: 5 - 55 degrees C
Humidity: 0 - 95% (non-condensing)

Contact Magnaflux Quasar for more detailed application information.

MAGNAFLUX
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