dB6 Transducer Series
Engineering Specifications

Basic Description
The transducers shall be robust, Nema 6P construction for submersed conditions and have UV rated, weatherproof cable. The microprocessor shall provide 24 Vdc to the transducer, which is converted into a 3,000 V peak-to-peak high frequency ultrasonic pulse and focused within a narrow beam to the monitored surface. The return echo is transformed into a current signal (*for eliminating electrical noise*) and returned back to the microprocessor for signal processing. The "Effective Beam Angle" is 3 degrees or less.

dB6 **dB06** (*Liquid & solid level measurement)*

Range:	1 to 19.7 feet (0.3 to 6 m)
Operating frequency:	50 kHz
Housing:	Valox 357 PBT or optional PVDF. Nema 6P (IP 68)
Diameter & Height:	3.39 inch (86 mm) & 4.17 (106 mm)
Mounting:	1" NPT Top, 1½" Nose Thread or 3", 4", 6", 8" ANSI PTFE Faced Flange
Beam Angle:	10° @ -3 dB
Effective Beam Angle:	3°
Temperature/Enviro.:	-40 to 194°F (-40 to 90°C), 0-100% Relative Humidity
FM Approval:	Class 1, Div. 1, Groups A-D and Class 2, Div. 1, Groups E-G

Options:

Submergence Shield:	For continuous operation in applications at risk of submergence. (A small air gap is produced to allow the system to read HIGH LEVEL)
Foam Facing:	Provides more acoustic power output in dry, dusty environments. This higher output increases return echo strength in tough applications.
Aiming Kit:	This kit is used for solid level monitoring and allows the transducer to be aimed towards the discharge point at the bottom of the silo or tank.
Fixed Angle Braket:	This is a simple 90° angle mounting bracket assembly for easy installation in a lift station. Made of Hot Dipped Galvanized Steel.
Hinged Bracket:	Designed for vertical wall type mounting. Cantilever allows for ease of maintenance or access use. Made of Hot Dipped Galvanized Steel.

Installation:
All equipment shall be installed, configured, interconnected, and commissioned by qualified persons, in accordance with the manufacturer's instructions and guidelines, and in compliance with all governing regulations and accepted engineering practices.

Warranty:
The manufacturer shall warrant the equipment described herein, to be free of defects in materials and workmanship, for a period of twenty-four (24) months from the date of shipment from the supplier. The manufacturer's liability shall be limited to the repair or replacement of the materials supplied, free of charge F.O.B. the manufacturers facility. Alternatively, at its option, the manufacturer may elect to refund the purchase price. Other limitations may apply. Refer to the "Terms and Conditions of Quotation or Sale" for complete warranty details.