

4-20 Translator^{© pending}

The outputs you need for fracing/cementing measurements



Berthold Technologies 4-20 Translator

The Berthold Technologies 4-20 Translator ^{© pending} provides the ideal solution for fracing/cementing companies who require an analog output not directly related to a density unit for their measurements.

The Translator can be used when the DCS, PLC, or whatever system is used must have a non-density output such as PPA, KgSA or other similar units.

Some control vans have the capability to convert the density output into a unit of measure they can use for monitoring sand consumption. For those that do not, the Translator is the perfect compliment to the Berthold system. It provides a convenient and reliable output so the quantity of fracing/cementing material can be measured—accurately and efficiently.

The Translator converts one standard density output from the Berthold Technologies fracing density system into two separate analog outputs. Each output can provide separate units in g/cc, PPA, Kg/m3, PPG or KsA.

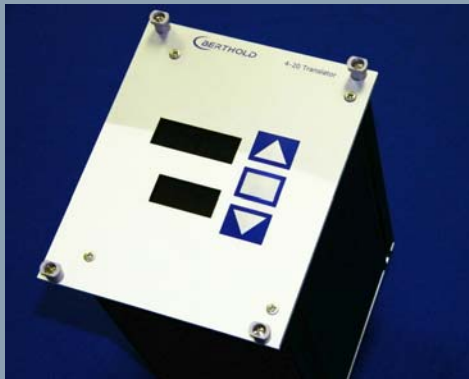
After the Fracing/Cementing density system has been calibrated at PAD over a 30 second snapshot using it as a single point, the Translator can take the 4-20 mA output and convert into the units of measurement you need.

The 4-20 Translator is also ideal for those situations calling for more than one 4-20 mA output. You now have the outputs you need—in a Berthold Technologies quality package!

Technical Specifications

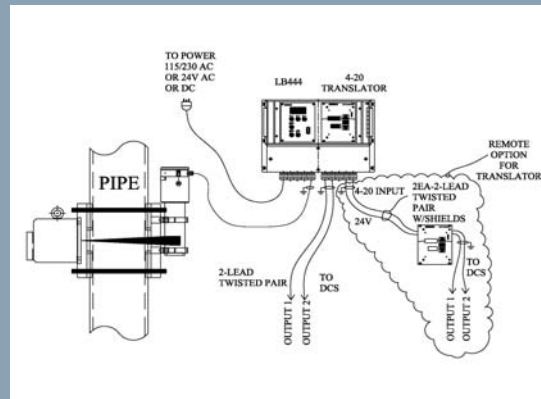
Weight	Approx. 3 pounds
Dimensions	App. 4.2 X5 X 6.8 inches
Electrical	24VDC from the Berthold LB 444 evaluation unit.
Display Type	5/8 inch red LED
Inputs	Two -4-20 mA current inputs
Outputs	(2) isolated and independent 4-20 mA analog current outputs

Cabinet type	Schroff Type
Connection method	Direct plug in to Berthold Technologies, cabinet, wall mount or remote.
Power rating	5 watts @24VDC
Unit readout	English or Metric-selectable
Number of displays	2



The diagram at right shows the mounting configuration for the 4-20 translator. It can either be mounted in the existing LB 444 evaluation unit cabinet or in a more convenient location. With 2 isolated and independent 4-20 mA outputs, the 4-20 translator can provide outputs in PPA (Pounds propant added), KgSA (Kilograms sand added) or any other non density unit used in fracing/cementing. The translator is powered by 24VDC from the existing Berthold Technologies LB 444 Evaluation Unit so connection is fast and easy! The red LEDs allow for easy readability by equipment operators.

The 4-20 Translator can either be mounted by itself-or as part of the existing LB 444 evaluation unit cabinet (Its on the diagram directly below). The Translator is easy to use and set up. It only takes one simple calibration procedure and you are ready to go! The keypad has been designed for easy numeric entry—we have even taken into account operators who wear gloves to insure there are no keystroke errors. The 5/8 inch LEDs allow easy reading of the entered parameters—even in very low light conditions. It is designed to match the LB 444 Evaluation unit so it looks as good as it operates!



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