

Oxygen Flow Measurement In A Sensitive Environment

Needing to test oxygen flow to a pilot's flight mask, a defense contractor, ACME Aerospace, was seeking a battery powered flow meter which was intrinsically safe.

They needed these devices to check O2 flow and check for leaks in an O2 supply system.

After consultation with Alicat technical staff they were informed that while we have CSA Class 1, Div. 2 and ATEX rated meters, we do not produce intrinsically safe meters and the CSA Class 1, Div. 2 and ATEX rated rating cannot be applied to battery powered meters.

Undeterred, the engineers at said defense contractor decided to initiate their own explosive environment testing using a battery powered Alicat flow meter. After successfully determining that the battery powered meter would not lead to an explosion in this O2 rich environment, the contractor ordered several battery powered meters for their testing program. Of course, they also needed custom fittings (government?!?) and they needed it last week.

Need: Intrinsically safe battery powered flow meter.

Solution: MB-2SLPM-D-SAE (Please note: Alicat did not do any explosive environment testing, nor did we make any representation that these devices could be used in an explosive environment.)

- Alicat can make CSA Class 1, Div. 2 and ATEX rated devices.
- Battery powered devices cannot be CSA Class 1, Div. 2 and ATEX rated.
- Alicat devices can be manufactured with custom fittings (check for availability, price and time frame)
- Orders may be expedited with prior approval from Alicat production manager. (25% [of product cost] expedite fee applies).

