

Recommended Calibration Interval for High Precision Flux Gate DC Current Transducers

Maintaining calibration status of sensors is an important requirement in many quality controlled systems, but the necessary calibration interval depends on the requirements of the specific system.

The general recommendation for the calibration interval of Danisense transducers is 1-2 years.

The necessary calibration interval is determined by the user requirements. Considering the stability of the measurement instruments and the permissible measurement uncertainty a suited calibration interval can be chosen. This may vary between instruments. The stability of the instruments can be determined from its calibration history. If an instrument is showing very low drift between calibration, it may be acceptable to increase the calibration interval of the instrument. On the other hand, with a very strict uncertainty budget, a short calibration interval may be required.

Generally, the flux gate transducers are very stable in themselves, however if the sensor contains a measurement resistor, the resistor can cause significant drift. This is why it may be advisable to calibrate sensors containing measurement resistors more often than pure current transducers. This drift also depends on how the instrument is used. The more a resistor is loaded, usually the more its value will drift.

For further information you are welcome to contact Danisense.