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Shear Probe Calibration Report

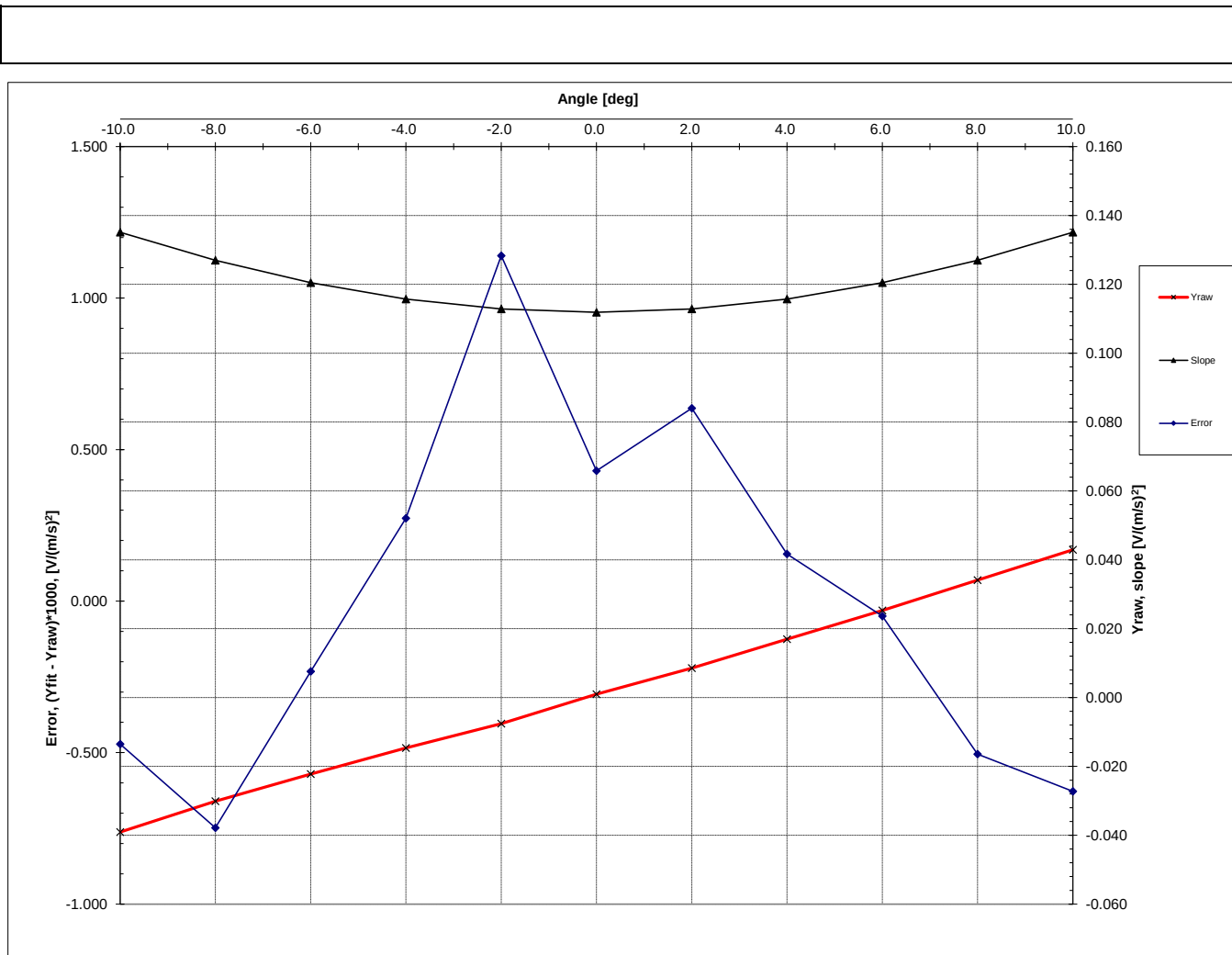
Serial Number, SN : M2280

Sensitivity [Volts / (m/s)²] : 0.1119

Operator : S. Yasuda
Calibration Date : 2020-05-07
Recommended re-calibration : 2021-05-07
Calibration Temperature : 20.8 °C
Amplifier type : Charge

Probe PN : 012-000-20
Description : Shear Probe, 3/8, SMC

Capacitance (nF) : 1.028
Resistance (GΩ) : >200
Pressure Rating : 600 Bar



WARNING

This probe is extremely fragile. Do not touch the probe tip with any solid object. Keep the connector dry.

Frequently Asked Questions about the Velocity Shear Probe

- Q: How often should Shear Probes be calibrated?** A: The sens value of a shear probe will shift with time and use. Rockland recommends calibrating shear probes annually, or before and after a deployment.
- Q: Is a cold temperature calibration required?** A: When the shear probes are operated in cold water (below 5 °C) the sensitivity of the probe changes. This behaviour has been observed when operating in Arctic or Antarctic waters. Therefore, Rockland offers a cold-calibration option. The cold-calibration involves first calibrating at regular temperature, around 20 °C, then a second cold water calibration done between 0 °C and 5 °C. There will be two calibration reports supplied.
- Q: What are the basic operating requirements of the Shear Probe?** A: To produce useable data, shear probes require a flow past the probe greater than 0.2 m/s. The recommended flow is between 0.6 m/s and 0.8 m/s. The angle of attack of the shear probe must be less than or equal to 10 degrees. The shear probe must be installed on a low vibration platform such as a VMP glider.

If you have any questions or concerns, or you suspect a problem with your Shear Probe, please contact support@rocklandscientific.com.