LOC-F Optical Controller

The **LOC-F Optical Controller** is designed for Lenterra's **RealShear™ F-Series Shear Stress Sensors**. Together they provide precision wall shear stress and viscosity measurements for a wide range of applications.

Applications

- Scale up of high-shear mixer (HSM) processes from the laboratory to the factory floor
- Continuous monitoring of mixing operations to prevent under/overprocessing
- Viscosity measurement of flowing or mixing fluids
- Characterization of multiphase/ multicomponent flows (e.g. crude oil extraction)

Features

- Fast measurement rate to capture high frequency periodic effects and transients (up to 10 kHz)
- USB interface with remote PC
- LabVIEW®-based remote software to display real-time data and capture and save for analysis (Microsoft Windows® compatible)
- Source code supplied for user-customization of software
- Simple turn-key operation
- Available in 1 or 2 channel versions (LOC-F-1CH and LOC-F-2CH)

Specifications

Optical	
Channels (I/O Pairs):	1 or 2 (-1CH or -2CH)
Connector Type:	Sealed Duplex LC
Output Bandwidth:	1500 nm - 1600 nm
Output Power:	10 mW max.

Data	
Maximum Meas. Rate:	10 kHz
PC Interface:	USB 2.0 (B)

Electrical	
Voltage Requirements:	100-120V, @ 47-63 Hz
Power Rating:	12 W

Physical	
Dimensions (WxDxH):	7.25 in. x 8.75 in. x 3.5 in. (18.4 cm x 22.2 cm x 8.9 cm)
Weight:	8.0 lbs. (3.6 kg)
Operating Temp.:	50°F to 105°F (10°C to 40°C)
Storage Temp.:	15°F to 105°F (-20°C to 40°C)

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