STATIONARY DATA ACQUISITION SYSTEM

ST300 DatAQ – FB

The ST300 DatAQ - FB Series is a family of versatile data acquisition instruments that offer 16-bit, 100 kHz data sampling capability. They communicate through the PC's Universal Serial Bus (USB) port. Each model is capable of handling a variety of sensor types, including the ST703 series accelerometers, ST303 series laser sensors and LVDT's. Also available from Sequence Technologies is our unique line of data acquisition software packages:

- **ST310 BearingVIEW** – turret bearing monitoring software (laser based)
- **ST311 LaserVIEW** – waveform recording software for laser sensors
- **ST312 MultiDAQ** – machine monitoring software for accelerometers and other sensors.

Custom Windows compatible application software is also available upon request. Typical uses of this system include:

- *Turret Bearing Wear Analysis*
- *Predictive Maintenance Analysis*
- *Process Monitoring*

KEY FEATURES

- Customized channels (32, 16, 8 & 4)
- High resolution capability
- Send all digital data over 300 feet using only one Ethernet cable to the PC
- Industry compatible (LabView, others)
- 500V isolation provides low noise measurements
- NEMA 4X stainless steel cabinet

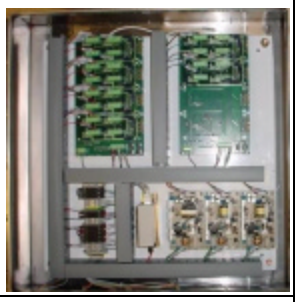
SPECIFICATIONS

Performance	Units	FB
Input Resolution	Bits	16
Sample Rate	kS/s	100
Channels	Qty (max)	32
Isolation	V	500
Electrical		
Analog Inputs	V	±10
Sensor Supply	V	24 & ±12
Supply Power	VAC	120
Optional Battery Powered	VDC	24
Mechanical		
Dimensions	in	24 x 24 x 8
Weight	lbs	15
Case Seal	Type	NEMA 4X
Operating Temperature	°C	-5 to 70
Sensor connectors	Type	4, 6 & 8 pin (M12)
I/O Connector	Type	USB or Ethernet (RJ45)

ST300 FB/32 model

NEMA 4X cabinet provides protection of internal circuitry in harsh mill conditions. Connectors are mounted to the bottom of the cabinet.

Sequence Technologies designs and manufactures all of its circuitry in the ST300 series systems. This allows us to customize each system to your application.

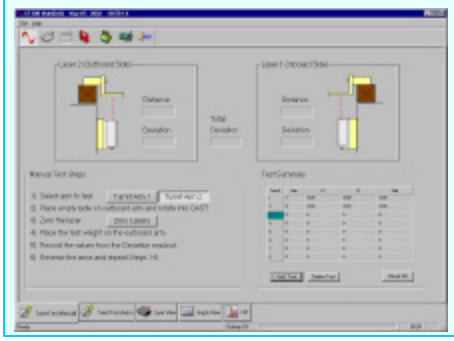


HARDWARE ACCESSORIES

ST303 OptiGAGE
Laser displacement sensor
with bracket

ST703 series
Accelerometer
sensors

SOFTWARE OPTIONS : ST310 BearingVIEW – bearing analysis software is an interactive program designed to measure, capture and display bearing deflection measurements from the ST303 OptiGAGE laser sensors.



Additional software includes the ST311 LaserVIEW and ST312 MultiDAQ; both are Windows ready data acquisition programs capable of monitoring your most vital data. Compatible with LabView, others.

BENEFITS

- Enable in-house data collection
- Obtain accurate real-time data
- Facilitate ISO certification
- Eliminate down time

Sequence Technologies, Inc.
Providing Innovative Solutions

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STATIONARY Design (FB)

ITEM	PART No.	Name	Description	Qty	COST
Component Hardware Pricing (ST300-FB)					
1	MOD4	Data acquisition module	4 ch data module	1	Please call for current pricing and availability
2	CNB4	Connector board	4 ch connector board	1	
3	CON	Connector terminal	4, 6 or 8 pin connector	1	
4	CRB	Carrier board	16 ch main board	1	
5	DAB	Data acquisition board	16 ch A/D board	1	
6	USB	Universal serial bus	Hub & extender	1	
7	FB	Enclosure	Field Junction box	1	
			- NEMA 4X design		
			- Custom sizes		

ORDERING INFORMATION

ST300- X X / X - X

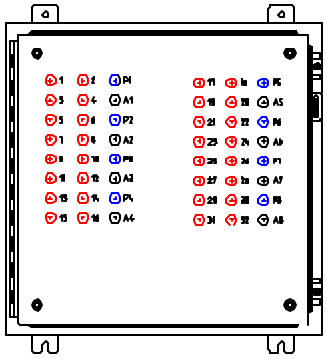
- ENCLOSURE STYLE: FB= Field Junction Box
- CONNECTOR LAYOUT: S= Screw connectors; T= Terminal connectors
- CHANNELS: 4= 4ch; 8= 8; 16= 16; 24= 24; 32= 32
- USB Option: Blank= No USB; U= USB option

EXAMPLE ORDER: ST300-FBS/32-U

32 channel stationary system with screw connectors consists of the following hardware components:
MOD4 (x8), CNB4 (x8), CON (x48), CRB (x2), DAB (x2), USBE (x1), FB (x1)

CONNECTOR LAYOUT

Screw Connector Mounting



Screw connector design:

Sensor cables plug into the cable connectors mounted directly on the front of the cabinet door.

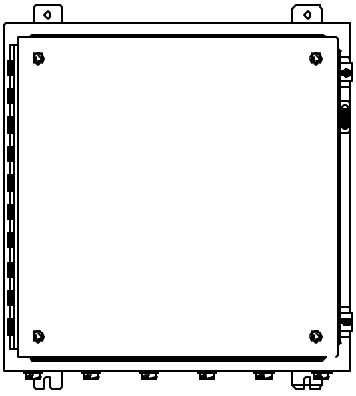
Enclosure size (L x W x D):
13 x 18 x 6in

Channel	Pin(s)	Compatibility
1-32	6	Single & biaxial accelerometers & voltage
P1- P8	4	Triaxial PZT accelerometer
A1-A8	8	Triaxial or Quad axis CAP accelerometer

NOTE: Each 4 channel data module (MOD4) is capable of monitoring (either/or):

- 4 single axis accelerometers
- 2 biaxial accelerometers
- 4 voltage inputs
- 1 triaxial PZT accelerometer
- 1 triaxial CAP accelerometer

Terminal Connector Mounting



Terminal connector design:

Sensor cables plug into the bottom mounted cable connectors. The connectors are hardwired into terminal connectors on the data modules mounted inside the cabinet.

Enclosure size (L x W x D):
24 x 24 x 8in

Channel	Pin(s)	Compatibility
1-32	4, 6 or 8	Configured per customer specifications

NOTE: Each 4 channel data module (MOD4) is capable of monitoring (either/or):

- 4 single axis accelerometers
- 2 biaxial accelerometers
- 4 voltage inputs
- 1 triaxial PZ T accelerometer
- 1 triaxial CAP accelerometer

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