Flow32-1K™
Sap Flow System

Dynamax

Dynagage Respected Throughout the World

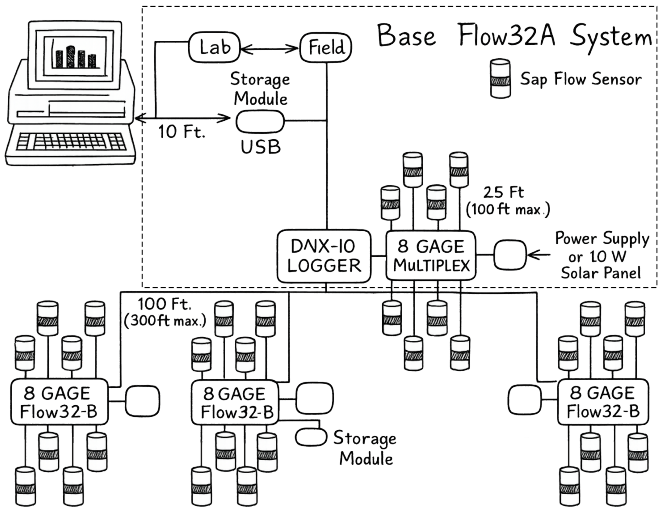
The Dynagage Flow32-1K Sap Flow system and Dynagage sensors have been servicing research plant scientists throughout the world for over 30 years. The Flow32-1K software makes working with Flow32-1K sap flow system easier than ever before with built-in algorithms for efficient and faster data analysis. Powerful functions include auto-zero and sensor status built into the data logger program. Sap flow data recalculation and automatic charting with an Excel™ Macro link makes the system a superior water relations measurement system. Sap Flow has never been this easy and powerful.

Dynagage sap flow sensors are the most accurate and reliable sensors available for measuring plant sap flow. Dynagage is now a key technique in modern water management, hydrology, crop studies, plant water relations, and biomass production.

The base Flow32-1K system does not include gages and is configured with eight 25 ft. (7.6 m) long sensor cables.

Applications

Sap flow measurements have an almost unlimited number of applications. Sap flow and transpiration rates provide commercial benefits from accurate irrigation schedules, improved irrigation set points and real crop ET coefficients. Sap flow is key data to model annual forest growth rates and conduct environmental remediation projections. After all, who can tell better than the plant how much water is consumed under varying conditions.



Features

- **Advanced CR1000X data logger**
- **128 MB flash, 4 MB Ram Memory**
- **Real-time sap flow**
- **Direct transpiration readings**
- **64 months of data memory capacity for sap flow calculations**
- **Modular and expandable system**
- **Auto Ksh, auto zero algorithm built in**
- **AVRD high efficiency regulator - 2 voltage outputs**
- **Easy to use logger support software, PC400**
- **Optional cell MODEM**

Specifications

Datalogger	CR1000X logger with built-in sap flow calculator
Base Inputs	8 Differential Channels - Analog, SDI-12
Channel Expansion	AM16/32 Relay Multiplexer
Expanded Inputs	32 Differential Channels - Analog
Sensor Capacity	(8) Dynagages up to (32) sensors with expansion
Range	±200 to 5000 mV
Resolution	0.05 to 0.88 uV
Voltage Regulation	AVRD Dual Voltage, 1.5 - 10 V, 5 A each
Base Memory	4 MB Hourly data - 1 year Daily data - 1 year Sap flow calculation - 8 months for 8 gages
Expanded Memory	Removable microSD flash memory, up to 16 GB
Communications	USB for laptop connectivity Ethernet Port: RJ45/ jack, 10/100 Base Mbps RS232 I/O port for modems
Power Supply	12 Vdc, 5 Amp power supply, IP67 rating
Solar Option	12 V connections supplied for solar panel/marine battery
Sensor Cables	8 x 7.6 m (25 ft) with Connectors
Enclosure	White fiberglass, NEMA 4X, with pole mounts, lockable, 17 x 14 x 6.5” (43 x 35 x 16 cm)
System Weight	11.5 kg

Ordering Information

Flow32A-1K
8 Gage System without Gages. Includes software and manuals
Dynagages - SGEX
Select Gage Sizes and Quantity (see Dynagage or EXO-Skin specifications)
PC-LOG
PC400, PC support software for CR1000X loggers. Supplied
PC-LOGNET Optional
LoggerNet, PC support software for CR1000X loggers. Required for cellular
Flow32B-1K
Eight Gage expansion kit - maximum of 3 per system
EXQCW-25, EXQCW-50
Extra Cable Length in lengths 25’ or 50’ (7.6 m or 15 m)
EQCW-50/LR, EQCW-75/LR, EQCW-100/LR
Special low resistance cable for SGA50, SGB70, SGA100 or SGA150. Lengths available 50’, 75’, or 100’
MSX20-R, MSX30-R, MSX75-R
Solar Panels for 20 - 75 W with 12 V regulator for deep cycle batteries