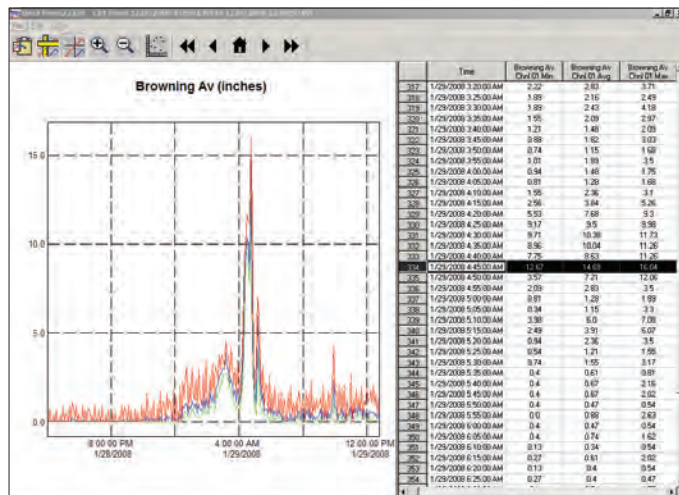


# SSO-31 CSO/SSO Monitor

No Confined Entry CSO/SSO Monitoring



SSO Event



Collect data via laptop or Telog's data transfer unit

**Captures CSO/SSO:  
Event Time Stamp  
Level  
Duration**

**No Confined Entry  
Data Collection**

**7 Year Battery Life**

**Windows® Software  
Support**

**Rugged PDA Data  
Transfer Support**

Telog's SSO-31 is intended for permanent installation in sanitary sewer man-holes or vaults to capture CSO (combined sewer overflow) and/or SSO (sanitary sewer overflow) events. The SSO-31 continuously monitors and records water level using a pressure sensor and captures CSO/SSO events including the duration, level and time stamp of each event. Data may be collected from the recorder with a hand-held data transfer unit (i.e. Palm Pilot or portable PC) without entering the confined space.

The recorder is packaged within a submersible enclosure rated NEMA 6P (IP-67) and designed for short term emersion during overflow events. It uses a user replaceable AA lithium battery to power the recorder for up to seven years. Mounting brackets are provided with the SSO monitoring system to hang the recorder from the top and attach the sensor to the side wall of the man-hole or vault. All exposed metal components of the recorder, sensor and mounting brackets are 316 Stainless Steel.

For information on other Telog data recorder products including our wireless SSO monitoring systems, call us at **585.742.3000**, email **TelogSales@telog.com**, or visit us at **www.telog.com**.



# SSO-31 Specifications



## Recorder

<b>Model</b>	Telog PR-31
Type	Single channel pressure recorder
<b>Measurement</b>	
Resolution	12 bits (0.025%)
Accuracy	+/- 0.075% of full scale at 70°F +/- 50 ppm/°F
Temperature range	-40°F to +150°F
<b>Recording</b>	
Sample rate	Programmable from 4/sec up to 8 hours
Data interval	Programmable from 1/sec up to 8 hours
Values saved	Selectable min, avg & max per interval
Memory	128 Kbytes (~80,000 data values)
<b>Interface</b>	
Type	RS-232; 300 to 19.2 Kbaud
Connector	Circular 4 pin watertight
<b>Battery</b>	
Type	Single AA Lithium (Saft LS 14500 or equal)
Life	7 years typical
<b>Physical</b>	
Temperature range	-40°F to +150°F
Environmental	Submersible to NEMA 6 (IP-67)
Enclosure	316 stainless steel
Pressure vent	0.2 micron Gore-Tex filter
Size	5.5"L x 1.75"D
Weight	2.2 lbs
<b>Support Software</b>	
S-3PC	Telogers for Windows
S-3PCL	Telogers for Windows Lite
Data Transfer Unit	DTU-R Rugged PDA running Palm OS including Telog DTU software

## Sensor

<b>Model</b>	Telog PT-30b
Type	Strain gauge pressure sensor
<b>Range</b>	10 PSI standard (0 to 22 feet of level) (contact Telog for alternate pressure ranges)
<b>Accuracy</b>	
Non-linearity	+/- 0.25% of span; BFSL
Repeatability	+/- 0.03% of span; BFSL
Hysteresis	+/- 0.03% of span; BFSL
<b>Temperature Range</b>	-4°F to 140°F
<b>Temperature Effect</b>	0.01%/°F
<b>Pressure Over Range</b>	
Proof pressure	4x full scale for 5 PSI range 2x for higher ranges
Burst pressure	10x full scale for 5 PSI range 4x for higher ranges
<b>Physical</b>	
Pressure connection	G 1/4 female
Sensor length	5.4"
Sensor diameter (max)	0.69"
Sensor body material	316 stainless steel
Cable	Vented polyurethane 0.315" diameter
Cable length	25 feet (contact Telog for alternate cable lengths)
Cable weight	0.027 lbs/ft

## Ordering Information

To order the SSO-31 system, specify the model number as follows:  
SSO-31-P-L  
Where P=pressure range in PSI and L=cable length in feet  
Example: SSO-31-10-20



### Telog Instruments, Inc.

830 Canning Parkway, Victor, NY 14564-8940, USA

Phone: 585.742.3000 • Fax: 585.742.3006

E-mail: [TelogSales@telog.com](mailto:TelogSales@telog.com) • [www.telog.com](http://www.telog.com)

Specifications within this brochure are subject to change without notification.

Telog® is a registered trademark and Telogers™ is a trademark of Telog Instruments, Inc.

Windows® is a registered trademark of Microsoft Corporation.

Palm® is a registered trademark of Palm, Inc.

05/14