

# Ultra-Miniature Depth Recorder **MDS-MkVID**

## Sensor

<b>Sensor type</b>	Semi-conductor pressure sensor
<b>Measuring range</b>	0 to 200/500/1000m(3 versions)
<b>Accuracy</b>	+/-1 %FS
<b>Resolution</b>	0.05 m(0 to 200m version) 0.125 m(0 to 500m version) 0.25 m(0 to 1000m version)

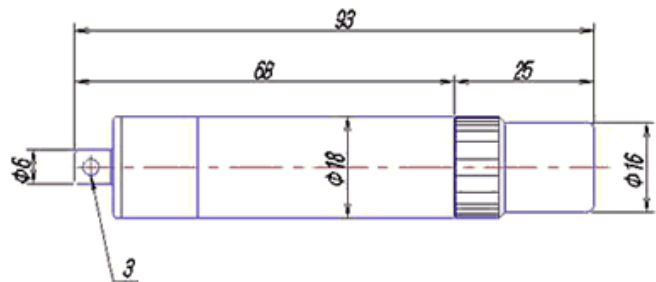
## Data logger

<b>Memory type</b>	2 MB flash memory
<b>A/D converter</b>	12 bits A/D converter
<b>Memory capacity</b>	512000 data (355 days at 1min interval)
<b>Sampling interval</b>	1 sec, 1 min, 2 min, 10 min
<b>Current consumption</b>	72 mA (when recording in flash memory)
<b>Power source</b>	1 ea Lithium battery (2CR1/3N)

## Hardware

<b>Material</b>	Titanium
<b>Dimensions</b>	18 mm( $\phi$ ) 93 mm(L)
<b>Weight</b>	60 g in air, 40 g in water (inclusive of battery)

## Drawing



## Interface Unit



<b>Communication mode</b>	RS232C
<b>Dimensions</b>	94 mm(W)X32 mm(H)X156 mm(D)
<b>Power source</b>	4ea of type C Battery
<b>Communication soft</b>	Windows(32 bit)
<b>Set-up configuration</b>	Interval setting Start time setting Calendar/time setting Data transfer and data erasing

*Note that specifications may be changed without prior notice.*

# Data aquisition program

1. Communication with recorder  
(setting of measurement parameters)
2. Graphic and tabular display of data
3. Data conversion to text file
4. Output to printer

**Data display**

Sample	YYYY/MM/DD	hh:mm:ss	Day	Temp[Deg C]	Temp[Value]
1	2001/01/05		S	19.32	1615
2	2001/01/05	00:10:00	S	19.34	1617
3	2001/01/05	00:20:00	S	19.33	1616
4	2001/01/05	00:30:00	S	19.33	1616
5	2001/01/05	00:40:00	S	19.34	1617
6	2001/01/05	00:50:00	S	19.37	1619
7	2001/01/05	01:00:00	S	19.38	1620
8	2001/01/05	01:10:00	S	19.34	1617
9	2001/01/05	01:20:00	S	19.35	1618
10	2001/01/05	01:30:00	S	19.37	1619

**Communication menu screen**

File Name: C:\WinMds5\User\04021600.Raw  
 Comments:   
 Serial No: 1  
 Start time: 2001/04/02 16:00:12  
 End time: 2001/04/02 16:00:12  
 Calib Date: 1999/03/20

Samples: 1 | Number of Data: | Mode:  Memory  Real Time  
 Interval: 1 Sec | Start Time: | Write File:  Hourly  Weekly  Daily  Monthly  
 Model: T | End Time: |  End

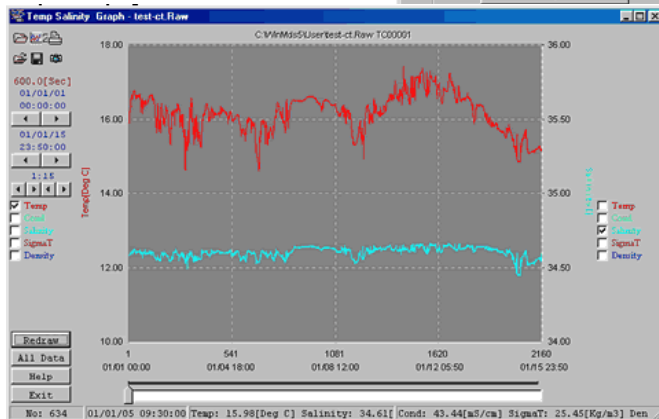
**Set-up screen**

- calendar
- parameter settings

Calendar  
 Date: YYYY/MM/DD [Read Set Up]  
 Time: hh:mm:ss [Save Set Up]

Measuring  
 Start Time: YYYY/MM/DD hh:mm:ss [Save Set Up]  
 Interval: 1 Sec | Non Interval

Memory  
 [Memory Clear] [End (Q)]



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