# SiCOMS<sup>®</sup> / OCom Data Logger

**User Manual** 

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# I. Introduction

SiCOMS / OCom Data Logger is a PC application used in the SiCOMS / OCom system for displaying measurement data from engine in on-line mode and recording the data into logfiles, and also for viewing SiCOMS / OCom log files recorded at an earlier time.

OCom Evaluator collects and processes the current values of oil mist concentration and temperature measured by OMD sensors inside the engine. Together with system status messages, Evaluator sends these data through a serial data link. SiCOMS / OCom Data Logger receives the data through PC serial ports (COM ports), visualises the measured values and writes the data in PC logfiles.

SiCOMS / OCom Data Logger is now available in following modifications:

- version for monitoring up to 4 SiCOMS / OCom systems in parallel (requires display resolution 1280 x 1024 pixels and higher).

This version has only logging function and can not be used for reading SiCOMS / OCom logfiles recorded earlier. To open SiCOMS / OCom logfiles, use either SiCOMS / OCom Data Logger for 1 system or Data\_Indicator program

- version for 1 SiCOMS / OCom system (runs with display resolution 1280 x 800 pixels and higher)
- extended 4-system version for Full HD displays (FHD, resolution 1920 x 1080 pixels and higher) that has advanced and flexible settings for showing SiCOMS / OCom data.



#### II. Installation and setup

To install SiCOMS / OCom Data Logger on a computer, double-click setup.exe on a provided SiCOMS / OCom Data Logger installation CD or other media. Follow the instructions in setup program.

When the installation is complete, SiCOMS / OCom Data Logger can be started through a program group in Windows Start menu:

OMD-Logger Vn.nn\_4 M OMD-Logger Vn.nn\_4

(or "OMD-Logger\_Vn.nn\_1" for the 1-system version).

When SiCOMS / OCom Data Logger is started for the first time and its configuration file (OMD-logger.ini) is not found, a default ini-file will be created and the following or similar message displayed:

OMD-logg	er.ini File Error!!
8	Please reenter settings with menu Setup, default OMD-logger.ini file created ! !
	OK

Fig. II-1. SiCOMS / OCom Data Logger Setup warning

Please go to "**Setup**" menu (see IV, 2) to choose valid logfile paths, serial port number and other options.

System requirements:

- Intel I5 processor 2.66 GHz or higher
- CD-Rom drive, recommended CD-R/W drive
- min. 4GB DDR2 RAM
- hard disk with a capacity of min. 500 GB
- supports Windows XP, Windows Vista, Windows 7, Windows 8.x, Windows 10
- Display resolution 1280 x 1024 or higher, for 1-system version: min. 1280 x 800, for FHD version: 1920 x 1080 or higher.



## III. Main program window

The SiCOMS / OCom Data Logger main window shows the measurement data in graphical form:

Mr SiCOMS / OCom Data Logger Version n.nn	
File Setup Start/Stop Log About -XY graph OMD1 SiSe_0C16-49_1531-099	XY graph not connected
Sty graph         OHD1         Sice_00:16:49_1531:099           Mode:         Phot         Scrolby         Scrolby         Currer           150	YY graph not connected!           Mode:         Plot         Sarahy         Sarahy <t< th=""></t<>
"Yf grach displayed values         Select Sensors         Alam           "O pockly         "T emperature "O MC reit to Markevet         "D Olmit mg/l         Show details         PreAlam           "Reference         "T ransmission         enlarge XY grach         System Ready	Y graph diployed values         Select Sensor         Alam Relay 1           [V Value 1         [V Value 4]         Show details         Alam Relay 1           [V Value 3         [V value 6]         enlorge XY graph         System Ready
150 155 105 105 105 105 105 105	Mode: Plot South South South Come Zourn Zourn Zourn Come 8 7 6 5 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Select Sensors         Select Sensors           Ø packy         I engerature           Ø Docky         I engerature           Ø DK Cret to Almével         Ø limits mg/l           Reference         Transmission	X* graph diplayed values         Select Sensors           Value 1         IF           Value 2         IF           Value 3         Value 6           entarge Xr graph         Atam Relay 1           Atam Relay 2         Atam Relay 2           Value 8         entarge Xr graph
Usa mesager ron evaluation Usa mesager ron evalu	OD2         C         0010         C         24004         5.028         0.0602,2016         14.54:54         5.44 mailsame confirmed by operated1         0.062,2016         14.54:54         Mainalasm confirmed by operated1         0.062,2016         14.57:23 (DMD)         Alam         OFF         C         Hom         0.062,2016         14.57:23 (DMD)         Alam         Relay 10FF         C         Hom         0.062,2016         14.57:23 (DMD)         Alam         Relay 10FF         C         Hom         0.062,2016         14.57:24 (DMD)         Alam         Alam         Figure 10.062         C         Hom         O         D <thd< th=""> <thd< th=""> <thd< th=""> <t< th=""></t<></thd<></thd<></thd<>

Fig. III-1. SiCOMS / OCom Data Logger for 4 systems: main window

There are also gauge controls for selective display of measured values. Click the "**Show details**" button to open extended display with gauges:



Fig. III-1 a). SiCOMS / OCom Data Logger for 4 systems: extended display



To select which sensor data should be shown at the XY graph, click "**Select Sensors**" button:

Senso	or selection
•	Sensor1
•	
•	Sensor 3
•	
•	
	Sensor 6
◄	Sensor 7
•	Sensor 8
◄	Sensor 9
	Sensor 10
•	
◄	Sensor 12
◄	Sensor 13
	Sensor 14
◄	Sensor 15
	Sensor16
	select all
	select none

- sensor numbers and display switch checkboxes. If a switch box for a sensor is checked, all selected measurement values for the sensor are shown in XY graph, otherwise the measurement values of the sensor are hidden.

Fig. III-1 b). SiCOMS / OCom Data Logger for 4 systems: sensor selection

The SiCOMS / OCom Data Logger for 1 system has gauge controls and sensor indicators at the main window:

SiCOMS / OCom Logger	Version n.nn_1 Main_Engine				×
File Setup Start About	6				
	Sensor Gauges	r	COT temperature diagrams		
Sensor Gauges		$\begin{bmatrix} 150 \\ 125 \\ 125 \\ 100 \\ 10$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	150     150       125     b       100     125       100     125       100     125       100     125       100     125       100     0       100     0       112     13	150         125         Gauges diplayed values           125         C Opacity         C Opacity           00         100         C Percence           75         75         Othinkt mg/l           50         55         C Temperature           60         0         C Temperature deviation           60         0         Gauges cole           7         Temperature deviation           6         0.10         0.50           7         16         Show nome in chast
					R R R R Sensor Ready Alarminhibit O O O Popacity Palarm T T T T T T T Popacity Mainalarm
- Xr graph 150 125 100 75 50 50				a	YAvis scale           C           010           010           010           010           010           210           210           210           210           210           210           210           210           210           210           210           210           210           2
0 6/4 11:59:59 ─XY graph displayed values □ Opacity ▼ Temperature	6/414595 © Opacity ret. to / © Otimist mp/	Jamievel	6/417.59:59 Reference Fransmission	6/4 20:53:59 Relay Status Ready Relay	6/4 23 59 5 Alam Relay 2 🙆 Alam Relay 1
	Data Logger logging mode	COM Port gra	e XY	extended 06	07-2016 13:22:04 Measure Stopped 07-2016 13:22:08 Measure Stated

Fig. III-2. SiCOMS / OCom Data Logger for 1 system: main window



The FHD version of SiCOMS / OCom Data Logger has a main window similar to the common 4-system version:

3.1 SiCOMS / OCom Data Logger Version 3.1	12FHD					×
File Setup Start/Stop Log About						
XY graph OMD1 Main Engine	e1	Gauges OMD1 Main Engine1	COT OMD1 Main Engine1	XY graph QMD3 Main Engine3	Gauges OMD3 Main Engine3	COT OMD3 Main Engine3
✓ graph displayed values         501 - 1           ✓ Dpacky         502 - 15           ✓ DACK et to Almievel         505 - 15           ✓ Reference         506 - 11           ✓ Temperature         506 - 11           ✓ Diniet mg/l         506 - 11           ✓ Diniet mg/l         507 - 10           509 - 11         507 - 10           100 - 11         507 - 10           110 - 12         507 - 10	50 35 20 05	a		W griph dispert values         60 -         150           Opendy         500 -         150         500 -           Ø Deck         500 -         150         150           Ø Deck         10 -         150         150           Ø Deck         10 -         150         150           Ø Deck         10 -         150         100           Ø Deck         10 -         150         100           Ø Deck         10 -         100         100           Ø Deck         500 -         100         100           Ø Deck         500 -         100         100           Ø Deck         500 -         100         100		
Select Sensors         \$12 - 3           \$13 - 3         \$13 - 3           Show details         \$14 - 3           \$15 - 3         \$15 - 3	45			Select Sensor         512         75           513         513         514         80           516         516         60		
Relay Status	30 -	····· †		Belay Status 30		
Shutdown	15			Shutdown 15		
Pre-Alarm				Pre-Alam		
System Ready 11	9/11312/09	19/1131329 19/1131359	19/1131429 19/11314	System Ready 0	30/12/00/00/30 30/12/00/01/00	30/12/00/01/30 30/12/00/02
	1011110.10.00	101101000	101101100		001200000	0012000100 00120002
XY graph BMD2 Main_Engine	e2	Gauges OMD2 Main_Engine2	COT OMD2 Main_Engine2	XY graph DMD4 Main_Engine4	Gauges OMD4 Main_Engine4	CDT OMD4 Main_Engine4
XY graph displayed values         SU1         SU1 -	50 35 20 05			PT         Opach disbed values         SUI         19           P         Reference         SUI         10           P         Temperature         SUI         10           P         Immin p1         SUI         10           SUI         SUI         10		
Select Sensors         \$11           Select Sensors         \$12           \$13         \$13           \$14         \$14           \$14         \$14	75 60			Stit         Stit         Stit           Select Sensors         513         513           Stat         514         56           Stat         514         50		
Relay Status :	45			S16         45           Relay Status         30           Shudown         15           PreAlam         15		
System Ready 11	0 -1	18/1 13/13/29 18/1 13/13/59	19/1 13:14:29 19/1 13:14	.59 System Ready 0 - 10-10-10-10-10-10-10-10-10-10-10-10-10-1	19/1131329 19/1131358	18/1131428 19/1131458
COM SICOMS Data L	/ OCom .ogger	DMD 2 -03000000003-7001 4000003-70021 0000000008	fb estended view C 0 C 0	01-19-2018 131448 (DMD 4 Sensor 4 Olim 01-19-2018 131448 (DMD 4 Sensor 4 Olim 01-19-2018 131448 (DMD 4 Sensor 4 Olim 01-19-2018 131448 (DMD 4 Alarm Relay 01-19-2018 131448 (DMD 4 Alarm Relay 2 01-19-2018 131448 (DMD 4 Alarm Relay 2	at Prostand At Mainaland OFF OFF	Condition Monitoring Safety

Fig. III-3. SiCOMS / OCom Data Logger FHD for 4 systems: main window

Each of 4 sections has three view pages: "XY graph", "Gauges" and "COT". The page selection for each window is retained when the program is closed so that the view pages are restored on program start.



Fig. III-4. SiCOMS / OCom Data Logger FHD for 4 systems: main window with different views

This version allows to assign longer (up to 9 symbols) names to sensors during logging.

"Show details" button opens an extended display identical to that in 4-system version.



The following is a description of program sections:

- a: XY Graph and options
- **b:** Gauges and options
- c: Message windows and event log window
- d: SiCOMS / OCom Data Logger modes

# 1. XY graph and options: a

XY graph displays engine measurement data at a time interval between program start and the current moment.

It is possible to change the scale of the graph and to navigate through it with the help of its options. Double-click on the graph to switch on/off its options:



Fig. III-5. XY graph with its navigating options menu

Click an option to change the navigation mode of the graph.

Scroll-X (Scroll-Y):	scroll the graph along X- or Y-axis
Scroll-XY:	scroll along both X- and Y-axis

To scroll, hold the left mouse button and move the mouse to the desired direction.

Zoom-X (Zoom-Y):	enlarge/shrink the graph along X- or Y-axis
Zoom-XY:	enlarge/shrink along both X- and Y-axis

To zoom, hold the left mouse button and move the mouse to the right to enlarge and to the left to shrink the graph in X-axis direction. Or move the mouse upwards to enlarge and downwards to shrink along Y-axis.

Zoom-Box:	enlarge selected area of the graph. Hold the left mouse button and move the mouse to select an area. Releasing the mouse button stretches the selection to the frame of the graph.
Cursor:	display the X and Y values of the selected plot point.
Plot:	return the graph to its default scale and continue plotting the data.



# 1.1. XY graph displayed values

	70
🔲 Opacity	🔽 Temperature
OMC rel. to Almlevel	🔽 Oilmist mg/l
🔲 Reference	Transmission

Fig. III-6. Options: XY graph displayed values

These options allow to show or hide the following measurement values at XY graph:

Opacity :	opacity level in percents. 0% = transparent environment, infra red light beam reaches destination without loss; 100% = opaque environment, infra red light doesn't come through
OMC rel. to Almlevel :	oil mist concentration in percents relative to alarm level
Reference :	basis value for calculating "Opacity" and "Opacity rel to Alarmlevel" values, given in digits
Temperature :	sensor temperature in °C with a resolution of 1°C
Oilmist mg/I:	absolute concentration of oil mist in mg/l
Transmission :	amount of light that reaches destination in the measuring unit of OMD sensor. Given in digits, a raw measurement value. Sensor initially calibrated in a transparent environment shows transmission about 1000 digits

(the following values are only shown at the gauges, not in XY graph)

Temperature 1/10 deg. :	sensor temperature in °C with a resolution of 0.1°C

Temperature deviation : deviation of sensor temperature from the average value of all measured sensors. (Only available in SiCOMS / OCom Data Logger for 1 system)

# Enlarge XY graph button:

enlarge XY graph - pressing the button extends the XY-graph window.

In 1-system version of SiCOMS / OCom Data Logger the button caption changes to "Reduce XY graph".



# 1.2. Y-Axis scale

-Y-Axis :	scale — —	
0	010	
- O	050	
$\odot$	0150	

Fig. III-7. Y-Axis scale

The option sets the scale for Y-Axis of XY graph. The same could be done through options menu inside the XY graph with "Zoom-Y" command.

#### 1.3. X-Axis scale



Fig. III-8. X-Axis scale options

These options help to set scale for X-Axis (time) of XY graph. Otherwise the scaling can be changed through options menu of the XY graph with "Zoom-X" command.

# 1.4. Relay status panel

The relay indicators at the panel show the current system status.



Fig. III-9 d). Relay indicators, SiCOMS / OCom system has detected an error, or there's no connected SiCOMS / OCom system.



# 2. Sensor gauges and options: b



Fig. III-10. Gauge for sensor Nr. 1 in SiCOMS / OCom Data Logger for 4 and for 1 system.

**2.1 :** gauge. Each gauge displays the current selected measurement value (see gauges options, III, 2.5) of the corresponding sensor at the time pointed by the diagram cursor at XY graph.

**2.2**: digital display of measurement value shown at the corresponding gauge.

**2.3 :** sensor number and display switch checkbox. For 1-system version: if the switch box is checked, all selected measurement values for the sensor are shown in XY graph, otherwise the measurement values of the sensor are hidden.

**2.4 :** sensor status LED indicators.

1) -	R 🔚 🔚	- 2)
3) -	0 📷 💼	- 4)
5) -	Т 🔛 🚬	- 6)

Fig. III-11. Sensor status indicators. Sensor is connected, no alarm inhibit enabled, all measured values at the sensor are within tolerance limits.

**1)** - "Sensor Ready" LED. If light green, indicates "Ready" sensor status. If dark green, shows that no connection to the sensor is detected.

2) - Alarm inhibit LED. If pink, shows that alarm inhibit is enabled.

3) - Opacity pre-alarm LED. Orange colour indicates opacity pre-alarm on the sensor.

4) - Opacity Main alarm LED. Red colour shows that Main alarm is raised for the sensor.

**5)** - Temperature pre-alarm LED. If orange, indicates pre-alarm condition at the sensor.

6) - Temperature Main alarm LED. Red colour indicates Main alarm at the sensor.



# Examples:



Fig. III-12 a) Sensor ready, alarm inhibit active



Fig. III-12 b) Sensor ready, opacity prealarm



Fig. III-12 c) Sensor ready, Main alarm



Fig. III-12 d) Sensor ready, temperature pre-alarm

R	•	•
0		•
Т	•	-

Fig. III-12 e) Error is detected for the sensor, or sensor not connected

When main alarm is triggered by the system, the following window appears together with relay indicators:

	ATTENT		
Main	Alarm Rela	ay trigger	ed!
OMD 1: OMD 2:	Main_Engine1 Shu Main_Engine2 Shu	tdown! tdown!	

Fig. III-13. Main alarm window.

If several SiCOMS systems are monitored simultaneously, the window contains the affected system number ("OMD1", ...) and engine name ("Main\_Engine1", ...). Press "**confirm**" button to close the window.

# 2.5. Gauges options



- Opacity
   OMC rel. to Almlevel
- C Reference
- C Reference
- Temperature
   O ilmist mg/l
- O Ilmist mg/i
   O Transmission
- Transmission
   Temperature 1/10 deg.

- These options allow to select the measurement value to show in the gauge. The measurement values are described in III, 1.1.

("Temperature deviation" option is only available in SiCOMS / OCom Data Logger for 1 system.)

Fig. III-14. Gauges displayed values

-6	iaug	es	sca	le	-
	_	_			_

- O 0.....10 O 0......50
- ⊙ 0.....150

- The option sets scale range for the gauges.

Fig. III-15. Gauges scale



# 2.6. COT temperature diagrams (Crankpin Oil Temperature) : e

The COT diagrams are displayed in extended display window of SiCOMS / OCom Data Logger for 4 systems, and in the main program window of SiCOMS / OCom Data Logger for 1 system at the tab "COT temperature diagrams".



Fig. III-16. SiCOMS / OCom COT diagrams

**COT temperature diagram** shows sensor temperature values at a selected time point in °C with a resolution of 0.1°C.

**COT temperature difference diagram** displays the temperature deviation of each sensor at selected time point from the average temperature of all sensors.

Temperature values are also shown numerically for each sensor:

S1 - S16: 26,5C 27,2C 27,0C 27,1C 27,0C 26,9C 27,6C 28,4C 27,7C 27,8C 28,6C 27,7C 27,6C 28,1C 28,2C 27,8C

Fig. III-17. Temperature values for sensors S1 to S16 at COT diagrams



#### 3. Message windows: c

#### Data messages from evaluator window:

Shows measurement data received from Evaluator in raw format. Press "**extended view**" button to open a larger window with Evaluator messages.

Data messages from evaluators
OMD1 :00000000003c3001a000003c3002100000000010a0000
extended view

Fig. III-18. Data messages from evaluators



Fig. III-19. Evaluator messages extended

# Event log window:

Displays event messages and warnings produced by the SiCOMS / OCom systems during monitoring. Double-click anywhere at its field to open a larger status window with event log:



Fig. III-21. Extended status window



# COM Port message window:

(Only available in 1-system version of SiCOMS / OCom Data Logger)

Г	Error Messages COM Port	1

- displays current status and error messages for COM port.

Fig. III-22. Error messages of COM port.

# 4. SiCOMS / OCom Data Logger modes: d

(Only available in 1-system version of SiCOMS / OCom Data Logger)

This status string shows the current functional mode of SiComs / OCom Data Logger:

logging mode	- monitoring connected SiCOMS / OCom system, recording measurement data in a log file.
file mode	<ul> <li>viewing an existing SiCOMS / OCom log file. Relay and LED indicators are hidden from SiCOMS / OCom Data Logger main panel.</li> </ul>

File mode is switched automatically if an SiCOMS / OCom log file is loaded for viewing. To return to logging mode, click "File / Unload" menu item (see IV, 1.3)



<u>Note:</u> Switching functional modes is available in SiCOMS / OCom Data Logger versions for 1 SiCOMS / OCom system. SiCOMS / OCom Data Logger for 4 systems only works in logging mode.



# IV. Menu

#### 1. File menu



Fig. IV-1 a). File menu in SiCOMS / OCom Data Logger for 4 systems

File	Setup Start About		
	Load	-	
	Swap Month-Day	150	T= <sup>150</sup>
	Unload	125	= 125
	Stop Loading	120	= 123
	Print xy diagram	100	= 100
_	Exit	75	

Fig. IV-1 b). File menu in SiCOMS / OCom Data Logger for 1 system

#### 1.1. Load

This menu item opens an existing log file recorded in SiCOMS / OCom Data Logger for viewing. The program switches into file mode. The "**Unload**" menu item becomes activated.

#### 1.2. Swap Month-Day

The "**Swap Month-Day**" command changes appearance of day and month in the date format at XY graph. Useful for some region/language Windows settings that have different date format than English/US Windows settings.

# 1.3. Unload

The menu item closes a loaded log file and returns the program into logging mode.

# 1.4. Stop Loading

This menu item cancels current logfile loading.

#### 1.5. a) Print (4-systems version)

- opens a dialog for selecting one of connected SiCOMS / OCom systems. The current view of XY graph is then printed using standard MS Windows Print dialog.

```
b) Print xy diagram (1-system version)
```

This menu prints the current view of XY graph using standard MS Windows Print dialog.

#### 1.6. Exit

The menu item stops any active logging and closes the program. To stop logging, password is required (see chapter IV, 2.1.3 and 2.2.3).



# 2. Setup menu

# 2.1. Setup menu in SiCOMS / OCom Data Logger for 4 systems

Setu	Start/Stop Log	About
	Setup preferences	
	Setup scales	
	Setup password	

Fig. IV-2. Setup menu in OMD Logger for 4 systems



**Note:** It is only possible to change setup settings when logging is stopped. After any change made in options please close the program and restart it.

# 2.1.1. Setup preferences

The first page of tab control contains SiCOMS / OCom Data Logger installation parameters:

SILUMS / ULOM Sett	ings 1: Ma	ain_Engine1	No syste	em No sy	stem	No system
Settings Number of connected sy Path for all events logfil	stems 1			Browse	All events logfi C disabled C enabled	ile —
Comport Bau	drate Alarmrel 1	Alarmrel 2	Sensor location	Logfile path		Browse
2	-					Browse
3	•	-	- [·			Browse
4	•					Browse

Fig. IV-3. Setup preferences in SiCOMS / OCom Data Logger for 4 systems

#### Number of connected systems:

The number of SiCOMS / OCom systems connected to the PC in range 1 to 4.

#### All events logfile:

If this option is enabled, a separate logfile is created during logging which contains text status messages (events) for all connected SiCOMS / OCom systems.



# Path for all events logfile:

- directory where the all-events logfile is saved. Use "Browse" button to select it.

The following settings are repeated 4 times and contain individual options for each SiCOMS / OCom system:

#### Comport:

- serial port used for connection to the SiCOMS / OCom system.

#### Baudrate:

- the baudrate for the selected port.

#### Alarmrel1 and Alarmrel2:

These text strings will be shown at the main program window in "Relay status" section.

#### **Sensor location:**

The text entered in this field is used to form logfile names for the selected SiCOMS / OCom system, for instance: YYYYMMDDSi\_Main\_Engine1.slg, where YYYY is the current year, MM – current month, DD – current day.

(The old logfile name format is YYYYMMDD\_ Main\_Engine.log.)

#### Logfile path:

- directory where logfiles are saved. Use "Browse" button to select it.

Further tab control pages show SiCOMS / OCom system parameters received from Evaluator of each connected SiCOMS system:

ain_Engine1	1. Mai			IND System	NO SYSTEM
valuator ID Code	02M01	motcom OME	) System	connected	
Valuator Version	FW V2.01B1006				
Valuator serial number	test	Main Alarmlevel2	OFF	Temp. Main Alarmlevel2	110
lo. connected sensors	16	Sensor No. Alarm2	1	Temp. Pre Alarmlevel2	100
fain Alarmlevel	6	Enable COT Temp.Diff measurement	0		
<sup>p</sup> re Alarmlevel	70	First sensor Temp.Diff. measurement	1	-	
emp. Main Alarmlevel	110	Number of sensors Temp.Diff. measurement	16	-	
emp. Pre Alarmlevel	90	Alarmlevel Temp.Diff. measurement	50	-	
igits for TRS dirty error	400	Pre Alarmlevel Temp.Diff. measurement	40	-	
lysteresis TRS dirty	25	Enable Temp.Diff measurement for alarm	1	-	
fax, increase of opacity	420	Temp.Diff. Alarm inhibit temperature	300		

Fig. IV-4. Setup preferences in SiCOMS / OCom Data Logger for 4 systems, SiCOMS system parameters



# 2.1.2. Setup scales

ime in	terval for crea	ting new	logrile
۰	1 hour	C 10	lay (24 hours)
lefres	n time for char	t in ms—	
C	250 ms	œ	500 ms
C	750 ms	C	1000 ms

Fig. IV-5. Setup scales in SiCOMS / OCom Data Logger for 4 systems

# Time interval for creating new logfile:

This option defines whether a new logfile must be created at the beginning of a new hour or once a day (at 00:00:00).

#### Refresh time for chart in ms:

- time interval for updating the XY diagram with new measured values in logging mode.

# 2.1.3. Setup password



- Use this menu to set a new password required to stop data monitoring and logging. The default password is "omd".

Fig. IV-6. Setup password



# 2.2. Setup menu in SiCOMS / OCom Data Logger for 1 system



Fig. IV-7. Setup menu



**Note:** It is only possible to change setup settings when logging is stopped. After any change made in options please close the program and restart it.

# 2.2.1. Setup Serial port

Select serial port:	Baudrate:
СОМ 1 💌	9600 💌

- Select the serial port used for connection to SiCOMS / OCom system and the baudrate for the port.

Fig. IV-8. Setup serial port.

# 2.2.2. Setup Installation

Main_Engine Logfile directory:	
Logfile directory:	
C:\Logdata\OMD\	
Chart refresh-time:	ge Dir
500 mSec 👻	

Fig. IV-9. Setup Installation



## Installation location:

- text used to form logfile name, for example: YYYYMMDDSi\_Main\_Engine.slg, where YYYY is the current year, MM – current month, DD – current day.

(The old logfile name format is YYYYMMDD\_Main\_Engine.log. SiCOMS / OCom Data Logger for 1 system can open logfiles in both formats.)

#### Logfile directory:

- directory where logfile is saved. Use "Change Dir" button to select the directory.

#### Chart refresh-time:

- time interval for updating the XY diagram with new measured values in logging mode.

# 2.2.3. Setup Password

Enter old password	I
Enter new password	
Confirm new password	

- Use this menu to set a new password required to stop data monitoring and logging. The default password is "omd".

Fig. IV-10. Setup password

# 3. Start / Stop menu

Start/Stop Log About
Start all channels
Start channel 1
Start channel 2
Start channel 3
Start channel 4

Fig. IV-11 a). Menu Start / Stop Log in SiCOMS / OCom Data Logger for 4 systems Fig. IV-11 b). Menu Start / Stop in SiCOMS / OCom Data Logger for 1 system

Click "Start all channels" or "Start channel n" in the menu bar to start monitoring and recording measurement data in log file. Menu caption changes to "Stop all channels" or "Stop channel n" accordingly. On clicking "Stop" menu items the user is prompted to enter a password to avoid accidental termination of monitoring.



# 4. Evaluator menu

(Only for SiCOMS / OCom Data Logger version for 1 system)

If the application recognizes a certified SiCOMS / OCom Evaluator on measurement start, additional "Evaluator" menu entry is displayed:

	Evaluator	About
ſ	Parar	neter Info

Fig. IV-12. Evaluator menu

"**Parameter Info**" menu item opens a dialog with SiCOMS / OCom Evaluator version information and parameters:

n	notcom	OMD System connected	
		2M01FW V2.01B	
		Serial No.: test	
Evaluator parameter			
lo. connected sensors	12	Main Alarmlevel2	OFF
1ain Alarmlevel	6	Sensor No. Alarm2	1
Pre Alarmlevel	70	Enable COT Temp.Diff measurement	1
emp. Main Alarmlevel	110	First sensor Temp.Diff. measurement	1
emp. Pre Alarmlevel	90	Number of sensors Temp.Diff. measurement	12
igits for TRS dirty error	400	Alarmlevel Temp.Diff. measurement	50
lysteresis TRS dirty	25	Pre Alarmlevel Temp.Diff. measurement	40
lax. increase of opacity	420	Enable Temp.Diff measurement for alarm	1
emp. Main Alarmlevel2	110	Temp.Diff. Alarm inhibit temperature	300
emp. Pre Alarmlevel2	100		

Evaluator version and other parameters can be found in SiCOMS / OCom Data Logger for 4 systems using "Setup / Preferences" menu.

Fig. IV-13. Evaluator parameter info