

Web-регистраторы температуры DELTA OHM HD50PM

Технические характеристики

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Таджикистан (992)427-82-92-69

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Единый адрес для всех регионов: dmh@nt-rt.ru || www.deltaohm.nt-rt.ru

Particulate Matter Web Data logger HD50PM

DETECTION OF PM1.0, PM2.5, PM4.0, PM10

Fast and easy detection and alarming at dangerous situations

EASY TO USE - STAND ALONE OR IN NETWORKS

Connect it to your own local network via the **Wi-Fi or Ethernet** interface

INTEGRATED WEB SERVER

Directly accessible from any device in the network

ACCURATE AND RELIABLE SYSTEM

Highly accurate **self-cleaning** mechanism for minimized maintenance

FREE APPLICATION SOFTWARE

Software option available for **compliance** to **FDA 21 CFR part 11** recommendations



Main Applications

Building automation
Garages and workplaces
Offices in process industry
Cleanrooms

Keep indoor exposures to particulate matter under control!

Although it's difficult to estimate the percentage of time every individual spends indoors, it is a matter of fact that the incidence of PM on health is often overlooked.

When we talk about indoor PM we do not only mean the particulate matter generated by indoor activities such as combustion, fumes or other substances of biological origin. Indoor particulate matter is also the result of the inward migration of external particulate matter, a migration that can occur in a variety of ways: from cracks in the building envelope to infiltration, from the type of filters and ventilation used to natural ventilation and consequently to the external environment around us. It is therefore essential that indoor PM exposure is regularly measured and controlled in order to avoid harmful health effects.

With the successful **HD50 series**, Delta OHM already introduced in the market a data logger specifically for indoor measurement with **built-in web server** and easy to integrate in any kind of network thanks to the connection to local network via **Wi-Fi or ETHERNET**. The new model of the series, HD50PM, has been developed to allow data logging of **PM1.0, PM2.5, PM4.0, PM10** and typical particles size.

The data can be regularly sent to an FTP address, to an HTTP server (Cloud) and via e-mail (as attachments). By configuring personalized thresholds, the data logger advise acoustically, visually and remotely through notification via e-mail when these are exceeded. The internal clock can be regularly synchronized with a NIST reference server.

The PC software allows configuring the data logger, viewing the real time measurements both graphically and numerically, downloading the data in a database. The HD35AP-CFR21 option allows, in addition to the features of the basic software, the protection of recorded data and configuration in response to FDA 21 CFR part 11 recommendations.

Technical Specification

MEASUREMENT CHARACTERISTICS:

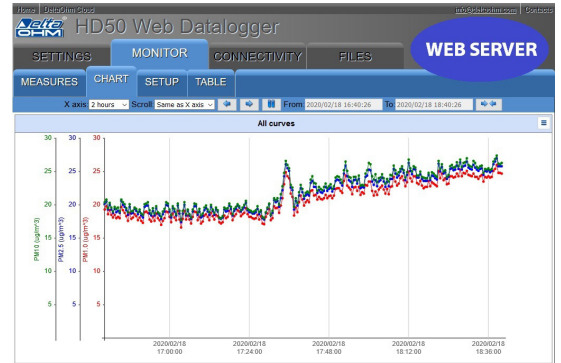
Measuring principle	Laser scattering
Measuring range	0...1000 µg/m ³ (for each pollutant)
Particle size detection range	Ø 0.3...10 µm
Resolution of the instruments	0.1 µg/m ³
Accuracy (@ 10...40 °C)	± 10 µg/m ³ (0...100 µg/m ³) / ± 10% measure (100...1000 µg/m ³)
Warm up time	< 8 s
Sensor lifetime	> 8 years (24 h/day operation)

GENERAL CHARACTERISTICS

Measuring interval	1, 2, 5, 10, 15, 30 s 1, 2, 5, 10, 15, 30, 60 min
Logging interval	1, 2, 5, 10, 15, 30 s 1, 2, 5, 10, 15, 30, 60 min
Internal memory	Circular management or stop logging if full. The number of samples that can be stored is from 469,510 to 906,640 depending on the number of quantities selected for logging.
Interfaces	Wi-Fi (IEEE 802.11b/g/n) and ETHERNET (RJ45 connector)
Protocols	Proprietary, Modbus TCP/IP, SMTP, FTP, HTTP, NIST
Wi-Fi security settings	WEP64, WEP128, WAP, WAP2
Alarm	Acoustic by means of the internal buzzer, LED on the front panel, sending of e-mails. Configurable for each detected quantity
Power supply	External 7...30 Vdc (no internal battery)
Power consumption	Average: 40 mA @ 24 V / 80 mA @ 12 V Peak: < 200 mA
Display	Optional graphic LCD
LED indicators	Power supply, Network connection (LAN/WLAN) and Alarm
Operating temperature and humidity	-10...+60 °C / < 100%RH non-condensing
Housing	Material: Polycarbonate Dimensions: 130 x 90 x 40 mm (156 x 90 x 44 mm with flanges) Protection degree: IP 54 (with protective cap on RJ45 connector)
Weight	300 g approx.
Installation	Wall mount, indoor

Integrated Web Server

Thanks to the integrated web server, you can configure the data logger and view the real time measurements from any PC, tablet or smartphone connected to the same local network of the data logger by simply using a web browser and typing the IP address of the data logger, without the need to install specific software.



Software

- HD35AP-S: PC application software for configuring the data logger, viewing the real time measurements both graphically and numerically, downloading the data in a database.
- HDServer1: PC software for downloading and viewing easily the data of multiple HD50 connected to the same local network.
- HD35AP-CFR21 (option) allows the protection of recorded data and configuration in response to FDA 21 CFR part 11 recommendations. In particular, the traceability of activities (audit trail) and the management of users access become available.

Ordering Codes

HD50PM

Data logger with integrated Web Server. It includes HD35AP-S and HDServer1 softwares downloadable from Delta OHM web site. Supplied with: pair of flanges for wall mounting, adapter from M8 connector to screw terminals for connecting the power supply. The SWD10M8 power supply or the CPM8... power supply cable have to be ordered separately. The Ethernet cable is not included.

Optional LCD display (HD50GPM).

Accessories

HD35AP-CFR21

Advanced version of the PC application software in accordance with the FDA 21 CFR part 11 recommendations. For Windows® operating systems.

CPM8.xx

Power supply cable. M8 connector on one side, free wires on the other. Available lengths: 2, 5 or 10 m.

CONM8H

Adapter from M8 connector to screw terminals

POE-SPLT12M8

Splitter PoE, output 12 V, connector M8

SWD10M8

Stabilized mains power supply 100-240 Vac /12 Vdc-1A. M8 connector.

Архангельск (8182)63-90-72	Ижевск (3412)26-03-58	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Волгоград (844)278-03-48	Краснодар (861)203-40-90	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Курск (4712)77-13-04	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Череповец (8202)49-02-64
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93
Иваново (4932)77-34-06	Киргизия (996)312-96-26-47	Казахстан (772)734-952-31	Таджикистан (992)427-82-92-69	

Единый адрес для всех регионов: dmh@nt-rt.ru || www.deltaohm.nt-rt.ru