

## HD 40.1 HD 40.2

[ GB ]  
Portable thermal printer



```

PRINTOUT IMMEDIATE MODE
Model HD2156 -2
#
pH/CONDUCTIVITY METER
Firm.Ver.#01-09
Firm.Date#2007/05/23
SN#07014827
Cal.#Factory
User ID#0000000000000000
    
```

```

K.Cell # 0.7
time 2007/06/27 09:18:00
Alpha.T # 2.00
TDS # 0.50
Temp.Ref.# 25.0°C
Probe type #not present
    
```

```

El.Cal.Temp.mV/A
time 0000/00/00 00:00:00
El.Calibration N/A
#
Date#2007/11/23 12:00:44
Sample interval# 1sec
HT 25.0 °C
0.0 uS
3.22 pH
    
```

```

HT 25.0 °C
0.0 uS
2.50 pH
-----
HT 25.0 °C
0.0 uS
3.22 pH
    
```

--> Printout stopped <--

```

PRINTOUT IMMEDIATE MODE
Model HD2101 -2
#
Thermo-Hygrometer
Firm.Ver.#01-08
Firm.Date#2006/09/25
SN#07019227
User ID#0000000000000000
Cal.#Factory
Probe#Sicras RH-Pt100
Probe SN#07026744
Probe cal.#2007/11/12
#
Date 2007/11/23 12:08:02
Sample interval# 1sec
chcA 3RH chcB °C
    
```

chcA	3RH	chcB	°C
50.9	18.0		
51.0	18.0		
51.0	18.0		
51.0	18.0		
51.0	18.0		
51.0	18.0		
51.3	18.0		
51.7	18.0		
52.2	18.0		
52.5	19.0		
52.7	19.0		

--> Printout Stopped<--

```

PRINTOUT OF LOG
Model HD2103 -2
#
Thermo-anemometer
Firm.Ver.#01-11
Firm.Date#2007/04/02
SN#07019414
User ID#0000000000000000
Cal.#Factory
Probe#Sicras hot wire
Probe SN#07020124
Probe cal.#2002/09/20
#
Date 2007/11/23 12:44:47
Sample interval# 1sec
chcA a/s chcB °C
    
```

chcA	a/s	chcB	°C
0.01	19.9		
0.01	19.9		
0.02	19.9		
1.20	19.9		
1.35	19.9		
1.40	19.9		
2.10	19.9		
2.05	19.0		

-->End of Log Session<--

```

HD2205-2
dual pH, temperature
Ser_num#07020925
2007-11-23 12:10:130
    
```

```

LMB POSITION 01
operator# Administrator
SAMPLE ID# 00000006
pH El. sernum#00000000
pH # 6.865
pH2 El. sernum#00000000
pH2 # 5.357
Temp # 25.0°C NTC
    
```

--> Printout stopped <--

## INTRODUCTION

The **HD40.1** and **HD40.2** are lightweight, compact, portable thermal printers. The **HD40.1** is connected to instruments or PC through the **RS232** serial input. The **HD40.2** features a dual mode data reception system - **RS232** serial and **Bluetooth**.

The Bluetooth wireless connection makes the HD40.2 printer very useful "in the field", since it does not require any connection to the instrument. A careful design allows you to replace the thermal paper roll in a few seconds. A four NiMH **rechargeable** battery pack provides power supply and ensures long autonomy: you can print up to 3000 lines at full charge. Standard thermal paper roll width: 57mm. Print resolution: 203 dpi. Print characters (each line): 24. Protection degree: IP40.

### Specifications

Printing method	Thermal
Resolution	203 DPI (8 dot/mm)
Printing width	48mm centered in the paper roll
Paper roll width	57mm ... 58mm
Max. paper roll diameter	32mm
Number of columns	24
Printing speed	Up to 90 mm/sec (depending on battery charge and ambient conditions)
Sensors	Paper detection
Character set	IBM II 858 table
Printing formats	Normal or extended
Character font	1 (16 x 24 dot – 2mm x 3mm)
Communication interfaces	RS232
Bluetooth (for HD40.2)	
RS232 Baud rate	9600, 19200 and 38400 baud ( <b>the factory parameter is 38400 baud</b> )
Bluetooth Baud rate	38400 baud (for HD40.2)
Bluetooth operating distance	Up to 10m without hindrance (for HD40.2)



Mains power supply (cod. SWD10)	100-240Vac/12Vdc-1A mains battery charger
Batteries	Four 1.2V AA rechargeable batteries (NiMH)
Printing autonomy	3000 lines 24 characters each. It prints one line every 10 seconds
Switch-off function	0, 5, 10 or 15 minutes
Dimensions	105mm x 165mm x 53mm
Weight	380g (with batteries and paper roll)
Material	ABS

### Operating conditions

Operating temperature	0°C ... 50°C
Operating relative humidity	20%RH ... 85%RH not condensing
Storage Temperature / Relative humidity	-25°C ... +70°C / 10%RH ... 90%RH not condensing
Protection degree	IP40

### Connections

Serial interface	9-pole D sub male connector
Battery charger power supply (cod. SWD10)	2-pole connector (positive in the middle)

### Ordering codes

**HD40.1:** The kit includes: 24-column portable thermal printer, **serial interface RS232**, 57mm paper width, four NiMH 1.2V rechargeable batteries, SWD10 power supply, instruction manual, 5 thermal paper rolls.

**HD40.2:** The kit includes: 24-column portable thermal printer, **Bluetooth and serial interface RS232**, 57mm paper width, four NiMH 1.2V rechargeable batteries, SWD10 power supply, instruction manual, 5 thermal paper rolls.

**The serial cable for PC/instrument connection must be ordered separately.**

**HD2110CSNM:** RS232C 8-pole MiniDin - 9-pole D Sub female null-modem cable for connecting the printer to instruments with MiniDIN connector (HD21xx.1 and HD21xx.2 series, HD34xx.2, HD2010, HD2110, etc.).

**9CPRS232:** RS232C 9-pole D Sub female null-modem cable for connecting the printer to instrument with 9-pole D Sub connectors (Delta Ohm instruments: HD22xx.2 series, HD98569, HD25.2, etc.).

**SWD10:** 100-240Vac/12Vdc-1A Mains battery charger.

**BAT.40:** Spare battery pack for HD40.1 and HD40.2 printers with in-built temperature sensor.

**RCT:** The kit includes 4 thermal paper rolls 57mm wide and 32mm diameter.



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