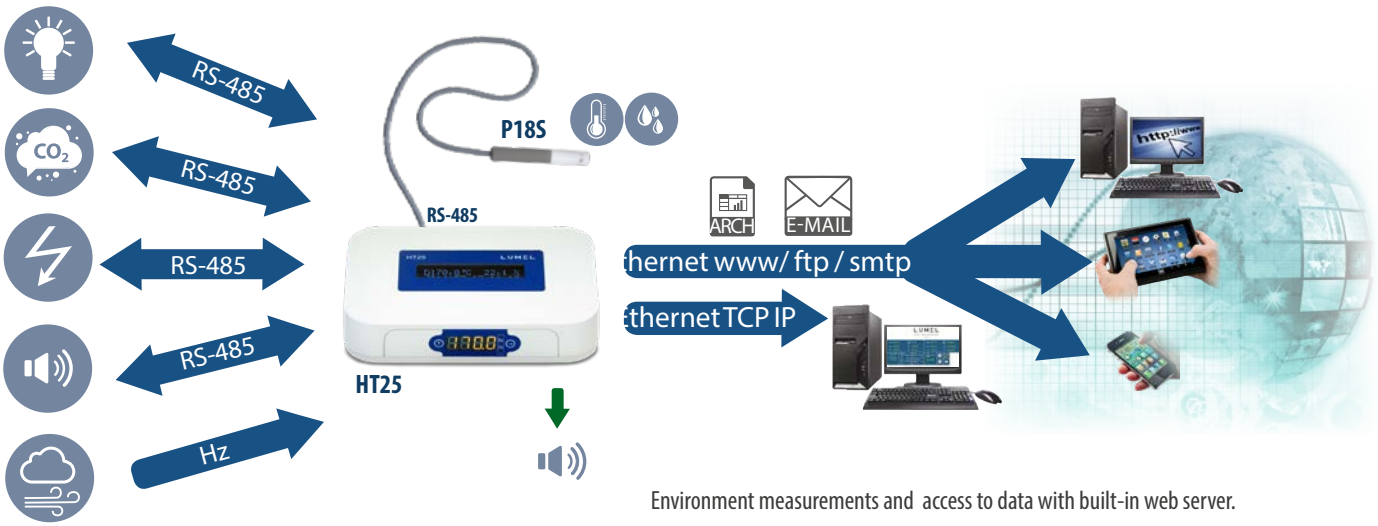
DITEL
Made by LUMEL

HT25
- DATA LOGGER

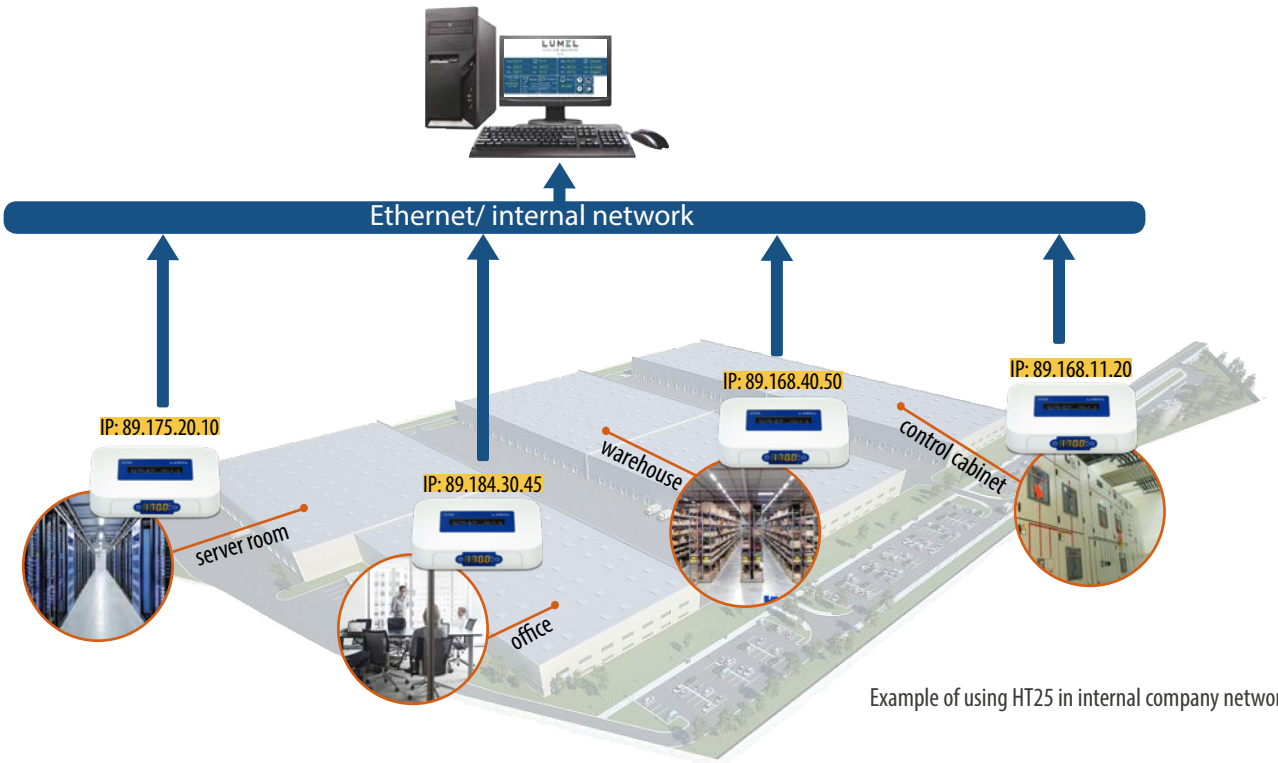
- monitoring up to 100 parameters from external devices through Modbus TCP/IP protocol
- 8GB internal memory for recording of input signals (up to 16 parameters)
- RS-485 interface with MODBUS RTU protocol and MASTER or SLAVE mode
- Power over Ethernt (PoE) or DC socket
- 4 binary inputs
- 2 logical alarms (e-mail, message on www, symbol on the display or sound alarm)
- input for measuring wind speed with anemometer
- sending alarm messages in the form of emails
- user-friendly interface.

EXAMPLE OF APPLICATION



... max. up to 10 devices through RS-485

Environment measurements and access to data with built-in web server.

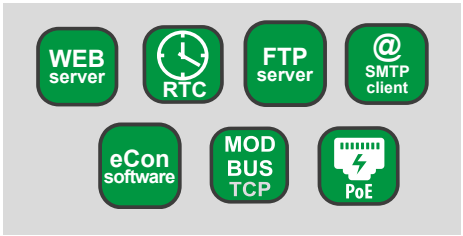


Example of using HT25 in internal company network.

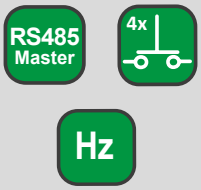
HT25 - DATA LOGGER

DITEL Made by LUMEL

FEATURES



INPUTS



OUTPUT

WHAT PARAMETERS CAN BE MONITOR BY HT25?

The HT25 data logger is a master device in Modbus RTU network, which can read the data from measuring devices with RS-485 interface. For this reason, the scope of monitored values is practically unlimited starting with physical quantities like temperature and humidity, and ending with electrical parameters like current and power. HT25 can simultaneously readout 10 devices (up to 10 registers /10 channels/ from each one). If you need to read more registers, set up separate readable channels for the same device with different base addresses.

HOW DOES HT25 WORK IN CASE THE PRE-SET PARAMETERS ARE EXCEEDED?

The HT25 allows up to two defined warnings. Whenever the pre-set parameters are exceeded, the HT25 will immediately signal this via:

- emails,
- messages on a dedicated website,
- special symbols on the display,
- audible alerts.

Therefore, every time the HT25 is connected to the Internet, you will always have the most up-to-date information on the actual condition of the monitored facility.

ETHERNET INTERFACE AND ITS FUNCTIONALITY

The HT25 is equipped with the Ethernet interface enabling its connection to the local or global network (either LAN or WAN). Thanks to the user-friendly and intuitive 'www' server, you will always have access to the information regarding:

- current measurement values,
- device status.

The 'www' server call also allow you to:

- configure it
- read the serial number, manufacturing code, software version and bootloader version.

The built-in FTP server allows for fast and easy access to archive data files from the level of web browser or from other FTP clients. The DHCP protocol provides automatic configuration of the data logger in the computer network, whereas the SMTP protocol is responsible for sending the warnings via emails. The HT25 data logger can also work in more extensive systems where the communication protocol Modbus Slave TCP/IP provides a smooth and reliable reading of all current measurement data.

MEASUREMENTS ARCHIVE

Thanks to the dedicated website, you can also check the archive data using a smartphone, tablet or a PC. There is no need to be worried about insufficient memory on the device; the HT25 has an 8GB internal file system memory where the data form the internal memory buffer (4GB) is automatically recorded as files. The memory has a form of a circular buffer and after the storage is full, the oldest files are overwritten. The internal archive can be read, copied and/or deleted.

HT25 - DATA LOGGER

INPUTS

Input type	Range
Binary	logical 0 0...2.9 V logical 1 3...24 V
Frequency	0.1... 100 Hz

DIGITAL INTERFACE

Interface type	Protocol type	Remarks
Ethernet 10/100 Base-T	Modbus TCP, HTTP, FTP	max number of concurrent connections - 10
RS-485 Master/Slave	Modbus RTU 8N2, 8E1, 8O1, 8N1 I Address 1..247	Slave mode only to update firmware in HT25

RATED OPERATING CONDITIONS

Supply voltage	12 V d.c. or PoE IEEE 802.3af (option)
Power concumption	< 5 VA
Preheating time	15 minutes
Ambient temperature	– 20...23...60 °C
Relative humidity	< 95%
Protection grade ensured by housing	IP 20
Fixing way	on a wall or put on a desk
Weight	<0.3 kg
Dimensions	150 x 100 x 28 mm
Operating position	any

SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	Noise immunity	acc. to EN 61000-6-2
	Noise emissions	acc. to EN 61000-6-4
Pollution grade	2	acc. to EN 61010-1
Installation category	III	acc. to EN 61010-1
Maximal phase-to-earth operating voltage	50 V	acc. to EN 61010-1
Altitude above sea level	< 2000 m	

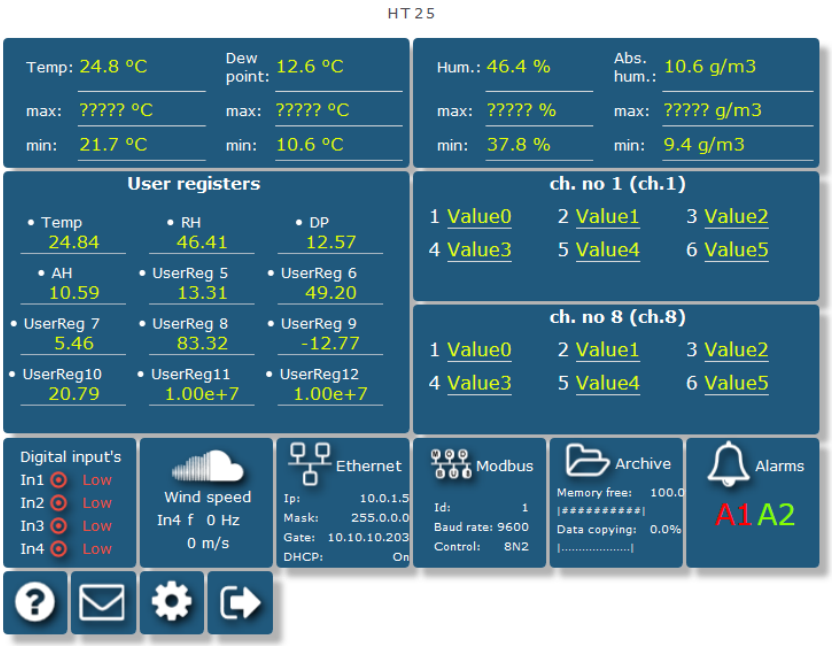
PARAMETERS OF DC ADAPTER (OPTION):

Voltage	12 V d.c. ± 5%
Max. power	12W*
Input voltage	90...253 V a.c.
Operating temperature	0...40 °C*
External dimensions	63.6 x 29.5 x 45.6 mm*
Cable length	1.4 m ± 10%*
Plug	ϕ 5.5 / 2.1 mm

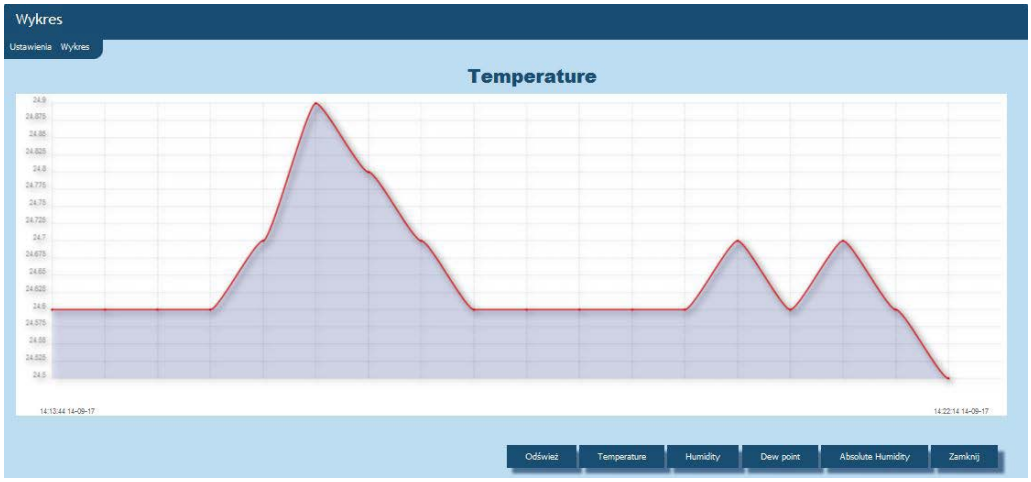
* adapter parameters can be changed

REMOTE READOUT OF PARAMETERS THROUG ETHERNET: **WEB SERVER, FTP**

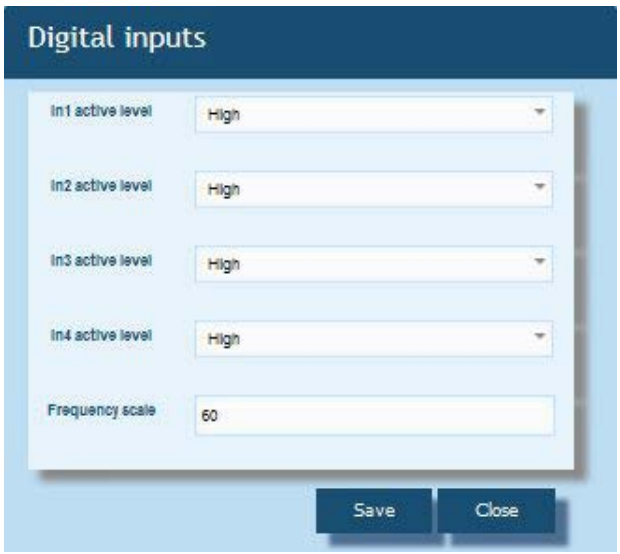
main page view



temperature trend view

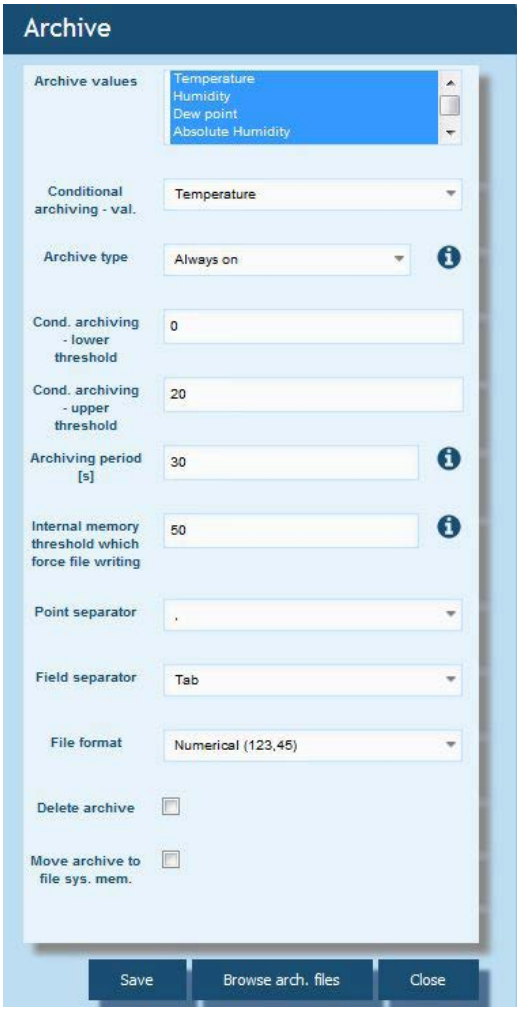


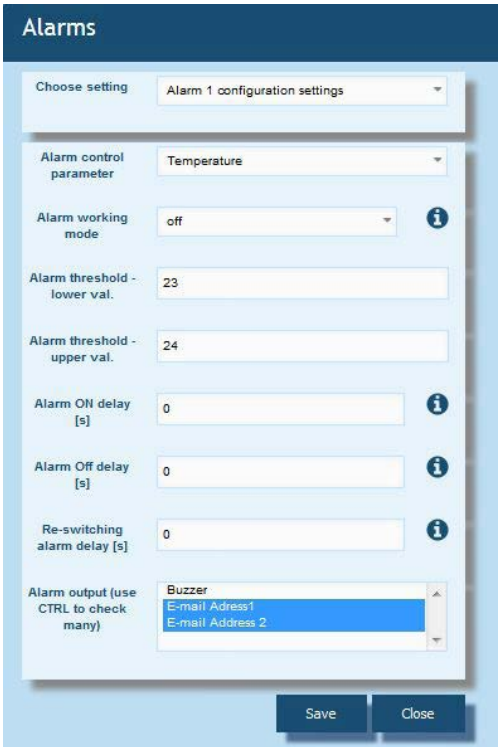
configuration window of digital inputs



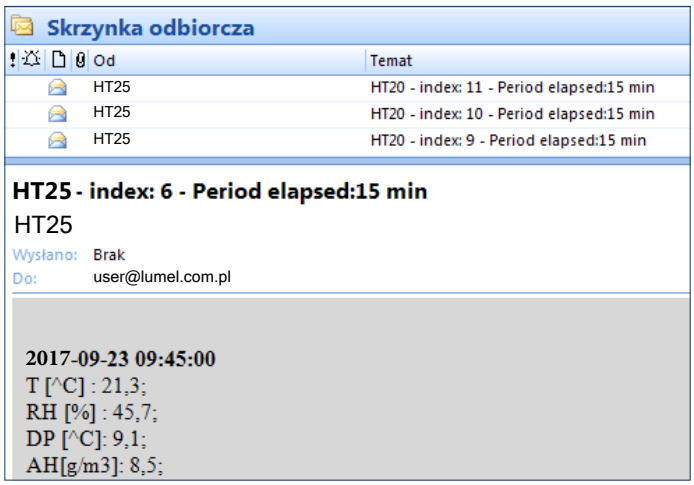
REMOTE READOUT OF PARAMETERS THROUG ETHERNET: **WEB SERVER, FTP**

alarms and archive programming





e.g. of email of cyclic measurements - sent at a specified time period



e.g. of mail alert - temperature exceeding

HT25 - DATA LOGGER

ORDERING

Data logger HT25 -	X	X	XX	E	X
Supply*:					
12 V d.c.	1				
12 V d.c. , PoE IEEE 802.3af	2				
Accessories:					
none		0			
adapter 12 V d.c.		1			
Version:					
standard			00		
custom-made**			XX		
Language:					
English				E	
Acceptance tests:					
without additional quality requirements					0
with an extra quality inspection certificate					1
acc.to customer's request					X

* - Data loggers in version HT25 1XXXXX require an external power supply 12 V d.c., in version HT25 2XXXXX they can be powered either from Ethernet PoE (Power over Ethernet), as well as from the external power supply 12 V, D.C.

** - after agreeing with the manufacturer

Order example:
Code: **HT25-2-1-00-E-0** means:

HT25 - HT25 data logger
2 - supply: PoE IEEE 802.3af and 12 V d.c.
1 - with attached AC 12 V d.c. adapter included
00 - standard version
E - user's manual in English
0 - without additional quality requirements

ACCESORIES:

Accessory	View	Ordering code	Technical data
12 VDC adapter		**20-090-00-00023**	Voltage: 12 V d.c. ± 5% Max. power: 12W* Input voltage: 90...253 V a.c. Operating temperature: 0...40°C* External dimensions: 63.6 x 29.5 x 45.6 mm* Cable lenght: 1,4 m ± 10%* Plug: ϕ5,5 / 2,1 mm * adapter parameters can be changed
PoE adapter		**20-090-00-00022**	Input voltage: 100 – 240 VAC Input frequency: 47 – 63 Hz Power consumption: 0.35 A max. for 240 VAC Output voltage: 48 VDC Output power: 15.4 W Operating temperature: 0 – 40 °C External dimensions: 140 x 65 x 36 mm Weight: 0.2 kg
conductor for PoE adapter		**20-069-00-00146**	Cable lenght: 1.8 m

SEE ALSO:

P18S - temperature and humidity transducer

P18D - humidity and temperature transducerwith digital and analog output

N43 - rail mounted 3-phase power network meter

S4AI - module of 4 analog inputs

DS-HT25_EN_20190430

DISEÑOS Y TECNOLOGIA S.A.
Xarol, 6B P.I. Les Guixeres
08915 Badalona - ESPAÑA
tel.: +34 933 394 758, fax +34 934 903 145
www.ditel.es

made in Poland by:
LUMEL S.A.
www.lumel.com.pl

30740013B