OVA PRODUCT CATALOGUE



CONTENT

OVAPORT MONITORING SERVICE	
OVA MOBILE	E
PORTABLE MEASURING DEVICES	
OVAZONE DEVICES (2.4 GHz)	8
MTR DEVICES (433.92 MHz)	



INDEPENDENT RELIABLE AUTOMATIC WIRELESS UNIVERSAL **CUSTOMIZABLE** VERSATILE IMPARTIAL MEASURING INTEGRATING PRECISE BUFFERING REPEATING **NETWORKING** TRANSPARENT REPORTING **COMPREHENSIVE**

Ova is all this and more.

CIRCUMSTANCE MONITORING MADE TO MEASURE.

OVAPORT SURVEILLANCE SERVICE

OVAPORT IS A WEB BASED SERVICE FOR COLLECTING MEASUREMENT DATA AND DISPLAYING IT IN ACCESSIBLE FORM. THE SERVICE CAN BE USED ON A DESKTOP COMPUTER AND WITH A MOBILE APPLICATION. IN ADDITION TO NOKEVAL MTR AND OVAZONE TRANSMITTERS, OTHER MANUFACTURERS' DEVICES CAN ALSO BE CONNECTED VIA MODBUS RTU.

OVAPORT OVERVIEW

AUTOMATIC DATA COLLECTION

Ovaport stores measurement data from all connected transmitters and presents it in accessible form. Ovaport enables viewing data in a real time overview or by individual measurement point. Individual measurement point history data is also available. Measurement data is stored as measurement point averages over a configurable time period. Data retention time period is according to contract or at least 24 months.

SURVEILLANCE DATABASE

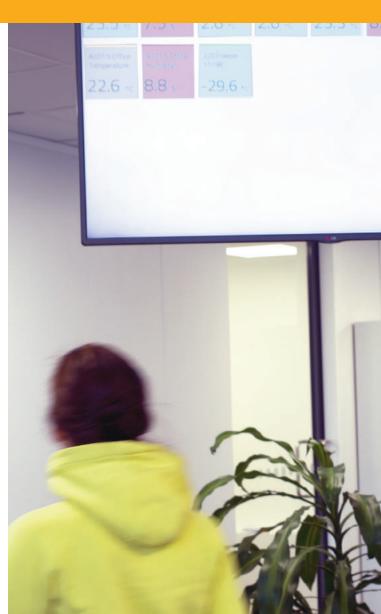
Ovaport enables attaching additional information to individual measurement points but also at an organizational level. A single measurement point can store information on operating procedures, reminders of future tasks, alarm limits, measurement data and exception handling. At the organizational level, an in-house control plan or technical manuals can be stored, for example.

REPORTING

Several different types of reports are available. Collected data can be reported on desired measurement points, time periods and data types, such as events and exceptions for example. Reports can be exported as Excel and PDF documents.

ALARMS

Ovaport can automatically send alarms of incidents, ensuring quick response times in these situations. Alarms can be sent to designated recipients according to configurable schedules. Both SMS and email alarms are supported. With an acknowledgement of an alarm, Ovaport will store information on the reasons and required actions of the incident.





SUMMARY ALARMS REPORTING SETTINGS

Kitchen 210 Refr 220 Freez Office A107.3 C A107.5 0 A109 Ov A200 Tas A 109 Me Production SO1 Custo SO2 Stora SO3 Cold Surface Hyg 200 Surf

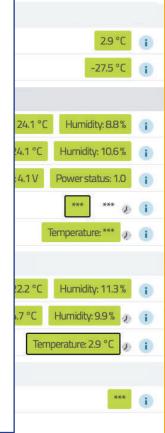
LICENSE LEVELS

OVAPORT IS OFFERED IN FOUR COST EFFECTIVE LICENSE LEVELS ACCORDING TO THE SIZE OF THE IMPLEMENTED SERVICE. FOR CUSTOMERS WITH OVER 200 MEASUREMENT POINTS OR 30 USERS, A CUSTOM LICENSE IS ALSO AVAILABLE.

LICENSE LEVEL	STARTER	EXTRA	ADVANCED	ULTIMATE
A DATABASE WITH BASIC FUNCTIONALITY	1 PC	1 PC	1 PC	1 PC
MEASUREMENT POINT COUNT	20 PCS	50 PCS	100 PCS	200 PCS
USER LOGINS [INCL. MOBILE USE]	5 PCS	10 PCS	20 PCS	30 PCS
MEASUREMENT STORING INTERVAL	10 MIN	5 MIN	5 MIN	5 MIN
DATA RETENTION TIME	24 MONTHS	24 MONTHS	24 MONTHS	36 MONTHS
FILE STORAGE (MAX. 25 MB FILES)		10 PCS	40 PCS	60 PCS

All licenses include a database with basic functionality and basic support during office hours.

SEVERAL ADDITIONAL FEATURES CAN BE ADDED TO ALL LICENSE LEVELS ACCORDING TO CUSTOMER NEED.



MANUALS

ADDITIONAL FEATURES

AVAILABLE FOR ALL LICENSE LEVELS

The comprehensive basic licenses can be expanded with several different additional features. Our product is and will be shaped by customer feedback and these additional features have been developed over time to bring practical benefits to users.

ADDITIONAL USER LOGINS

With a growing number of users, additional logins may be needed. Single or several users can be added at a time.

TIMED TASKS

Timed tasks enable Ovaport to be used as a task management, scheduling and assignment tool. The Ova mobile app combined with timed tasks saves significant time in making measurements and log entries. The feature also enables the distribution of work instructions.

ADDITIONAL INFORMATION VIEW

Work instructions, in-house control plan and equipment / maintenance information easily accessible in the Ovaport web user interface. A measurement and surveillance system expanded to equipment management.

INFO DISPLAY LINKS

Ovaport measurement and task information displayed without logging in to the system. An automatically updated view is useful on an info display - check up on pertinent data at a glance.

CONTINUOUS DATA STORAGE [INCLUDES AVERAGE MEASUREMENTS]

Suitable for measurement points from which real time data is needed. Every measurement data point produced by the transmitters is saved to the database. Other measurement points still store averages over 5 minutes for example.

COMPUTATIONAL MODULES

Computational modules are used to analyze measurement data or to calculate new values. Computational modules are created according to customer needs.

IN-HOUSE CONTROL PLANS AND TEMPLATES

An in-house control plan built and documented right in your surveillance system. Codes of conduct, maintenance plans, calibration certificates, floor plans all in the same place. Produce a PDF document of your control plan with a click of button.

CUSTOMIZED REPORTS

In addition to the standard reports available, customized reports can be built on order.

OVA MOBILE APR

FAST SIGN-IN

For quick access to tasks, the app stores logins, for several users if desired. A quick logout will ensure privacy.

ROBUST FEATURES

Measurements, log entries and tasks are enabled by temperature measurement, surface hygiene measurement, note, measurement input and multiple selection features.

ALARMS

Check up on alarm status on the move. Acknowledge and browse alarms easily.

TIMED TASKS

The front page of the app shows tasks in chronological order. Tasks are accessible by a single touch. Besides scheduled tasks, more generic, non-scheduled tasks can also be displayed.

USE THE CAMERA

Read bar codes or QR codes to gather information without manual input. The app will recognize Ovaport measurement point bar codes and choose a measurement point accordingly.

0

BLUETOOTH® TRANSMITTERS

The Ova app works with Nokeval Neo devices. For easy, fast and effortless measurement, the devices are automatically connected when powered on no pairing necessary.



WIRELESS SENSOR HANDLE OVASENSE NEO



article 97750

inputs Pt100: ±0.5°C in range -30... 100°C

Sensor type Pt100 Sensor length 80 mm Sensor diameter 2.0 mm

Sensor tip structure: needle tip

output Bluetooth 4.1 low energy

configuration Ovaport

sensor connection Integrated sensor dimensions 224 X 28 X 23 mm

protection class IP65

note Used with OVA mobile application



WIRELESS ATP LUMINOMETER OVAHYGI NEO

article 97666

inputs Fast, under 1 minute

measurement cycle. Uses Hygiena Ultrasnap® swabs. Direct result read-out, very easy to operate. Seamless integration with

Ovaport service. Battery powered, endurance up to 3 years.

output Bluetooth 4.1 low energy

configuration Ovaport sensor connection External swab dimensions 198 X 47 X 27 mm

protection class IP20

note Used with OVA mobile application

Calibrating services also available, ask more from your local distributor.

OVAZONE SERIES

WHAT IS OVAZONE?

- AN ALTERNATIVE WAY TO BUILD AN ENTIRE WIRELESS NETWORK.

WHAT DOES IT MEAN?

- IT'S A BI-DIRECTIONAL RADIO COMMUNICATION NETWORK, WHICH AUTOMATICALLY BUILDS AND REBUILDS CONNECTIONS IN 2.4 GHz ISM BAND.

HOW DOES IT WORK?

- IT'S FULLY AUTOMATIC, ROUTING, RE-ROUTING, BALANCING, BUFFERING, REDUNDANT AND FREE CHANNEL SCANNING. IT HAS VIRTUALLY UNLIMITED COVERAGE AND NODE COUNT.

HOW DOES IT REACT TO OTHER NETWORKS?

- IT CAN USE DIFFERENT CHANNELS LOCALLY AND ENABLES MULTIPLE PARALLEL NETWORKS TO COEXIST, SO THERE'S NO HARM IN HAVING OTHER SYSTEMS SIMULTANEOUSLY.

HOW OFTEN I HAVE TO CHARGE IT?

- EACH NODE HAS ITS OWN BATTERY AS A POWER SUPPLY. BATTERY LIFE IS ALWAYS SEVERAL YEARS, SO THERE'S NO NEED FOR CHARGING.

WHAT DOES IT INCLUDE?

- HARDWARE, SOFTWARE & SERVICES:
- OVAPORT NETWORK SERVICE (WEB & MOBILE APP)
- MEASURING TRANSMITTERS
- DATA COLLECTION BASE STATIONS
- DATA COLLECTION TERMINALS & PORTABLE SENSORS
- OVAHYGI SURFACE HYGIENE MEASURING DEVICES
- NEEDS ASSESSMENT, INSTALLATION, IMPLEMENTATION,
 TRAINING & CALIBRATION

WHAT DEVICES CAN BE CONNECTED?

- MTR SERIES TRANSMITTERS (433.92 MHz)
- OVA PORTABLE DEVICES
- OVAZONE TRANSMITTERS (2.4 GHz)
- ALL NOKEVAL PRODUCTS WITH SERIAL RS485 OUTPUT
- ALL DEVICES SUPPORTING RS485 WITH MODBUS RTU PROTOCOL (SLAVE)

HUMIDITY MEASUREMENT

LIKE NEVER SEEN BEFORE



OVAZONE-FLEX-NSENS-HT-ENS

article 97911

inputs External sensor

itnut Ovanet wirele

output Ovanet wire

maximum ranne 300 m (onen spac

naximum range 300 m (open spa

operating temperature -20...+80°C

measuring range Humidity: 0...100% Rh

emperature: -20...+ 80°

measurement accuracy Humidity:

(incl. reproducibility and $\,$ 15...30°C typical ±0.5% Rh

0...50°C typical ±0.8% Rh

-20...+80°C typical ±2.5% Rh

Temperature

 $0...+70^{\circ}C$ typical $\pm 0.1K$

-20...+80°C typical ±0.2K

sensor connection nSens connector

power supply One AA Size 3.6V Li-SOCI2 battery

nattery life Typically up to 2 year

antenna Dedicated antenna inside casing

antenna Deulcateu antenna mside cas

dimensions 171 X 60 X 32.5 mm

protection class IP40



OVAZONE-FLEX-NSENS

Art. 97784

NSENS-HT-ENS-compatible transmitter without the sensor. Please note the sensor probe must be attached before the device is ready to operate.

OVAZONE SERIES

AUTOMATICALLY SELF-ORGANIZING FXPANDARI F NETWORK 2.4 GHz

Accuracy, speed and precision now in one package for challenging humidity measurements. The nSens sensor combined with Ovazone-Flex-transmitter enables accurate relative humidity measurement wirelessly in wide range. As with all Nokeval transmitters, data is collected automatically by our Ovaport service. No more errors caused by sensor inaccuracy or delay in measuring process due to linear response characteristic. Calibration data is stored directly onto the sensor, which ensures quick probe replacement on site and eliminates long breaks in data collecting.



OVAZONE SERIES

AUTOMATICALLY SELF-ORGANIZING EXPANDABLE NETWORK 2.4 GHz









INTERNAL TEMPERATURE SENSOR	EXTERNAL TEMPERATURE SENSOR	EXTERNAL TEMPERATURE SENSOR	HUMIDITY AND TEMPERATURE
OVAZONE-FLEX-T	OVAZONE-FLEX-ES	OVAZONE-FLEX-CS	OVAZONE-FLEX-T-RH

article	97690	
inputs	Integrated Pt100 sensor	
output	Ovanet wireless	
radio signal frequency	2.4 GHz worldwide license free ISM band	
maximum range	300 m (open space)	r
operating temperature	-30+60°C	
measuring range	-30+60°C	o
accuracy	±0,5 °C in range of -30+50°C	
response time	15 min, 90%	
power supply	One AA Size 3.6V Li-SOCI2 battery	
battery life	Typically up to 2 years	
antenna	Internal antenna inside casing	
casing dimensions	171 X 60 X 32.5 mm	
protection class	IP66	

article	97693	
inputs	External Pt100 4-wire sensor	
	connected to the measuring module	
output	Ovanet wireless	
radio signal frequency	2.4 GHz worldwide license free ISM band	radio
maximum range	300 m (open space)	
perating temperature	-30+60°C	opera
measuring range	-200+600°C	
accuracy	0.05% rdg + 0.2°C at 25°C	
sensor connection	External sensor	SE
power supply	One AA Size 3.6V Li-SOCI2 battery	
battery life	Typically up to 2 years	
antenna	Internal antenna inside casing	
casing dimensions	171 X 60 X 32.5 mm	Ca
protection class	IP66	

article	97692
inputs	External Pt100 4-wire sensor or M12 pro
	connected to the measuring module
output	Ovanet wireless
radio signal frequency	2.4 GHz worldwide license free ISM band
maximum range	300 m (open space)
operating temperature	-30+60°C
measuring range	-200+600°C
accuracy	0.05% rdg + 0.2°C at 25°C
sensor connection	External sensor
power supply	One AA Size 3.6V Li-SOCI2 battery
battery life	Typically up to 2 years
antenna	Internal antenna inside casing
casing dimensions	171 X 60 X 32.5 mm
protection class	IP66

	article	97691
orobe	e inputs	Integrated Pt100 sensor, external
		capacitive element
	output	Ovanet wireless
nd	radio signal frequency	2.4 GHz worldwide license free ISM band
	maximum range	300 m (open space)
	operating temperature	-30+60°C
	measuring range	0100 %Rh, non-condensing
	total error band	±5 %Rh in range of 1090%Rh
	response time	10 min 63%, 25 min 90%
	sensor connection	Internal & external sensor
	power supply	One AA Size 3.6V Li-SOCI2 battery
	battery life	Typically up to 2 years
	antenna	Internal antenna inside casing
	casing dimensions	171 X 60 X 32.5 mm
	protection class	IP40

MTR SERIES

WIRELESS TRANSMITTERS 433.92 MHz









INTERNAL TEMPERATURE SENSOR	
FT10-RT433-IS	

EXTERNAL TEMPERATURE SENSOR FT10-RT433-ES

inputs External 4-wire RTD cable sensor

EXTERNAL TEMPERATURE SENSOR FT10-RT433-CS

HUMIDITY AND TEMPERATURE FT10-RT433-RHT

article	94110
number of channels	1
inputs	Internal Pt100 sensor within the
	replaceable measuring module.
output	MTR wireless
radio signal frequency	433.92 MHz
maximum range	1000 m (open space)
operating range	-30+60°C
accuracy	Temperature <±0.5°C
configuration	DCS772 + MekuWin (PC)
transmitting interval	5 s5 min
sensor connection	Internal sensor
power supply	1.5V alkaline battery size LR6 (AA
battery life	Typically > 3 years

dimensions 60 X 352 X 33 mm

protection class IP66 (when connected)

note Originally developed for regul-

calibration demands in cold r

and freezers. Response time

ıle.		connected to the measuring
		module.
	output	MTR wireless
	radio signal frequency	433.92 MHz
	maximum range	1000 m (open space)
	operating range	-30+60°C
	accuracy	Temperature <±0.5°C
	configuration	DCS772 + MekuWin (PC)
	transmitting interval	5 s5 min
6 (AA)	sensor connection	External cable sensor
	power supply	1.5V alkaline battery size LR6 (AA)
	battery life	Typically > 2 years
	dimensions	60 X 374 X 33 mm
lar	protection class	IP65 (when connected)
rooms	note	Internal terminal block to connect
15		RTD probe or cable sensor

article 94306

number of channels 1

number of channels	1
inputs	External 4-wire RTD cable sensor
	or M12 probe connected to the
	measuring module.
output	MTR wireless
radio signal frequency	433.92 MHz
maximum range	1000 m (open space)
operating range	-30+60°C
accuracy	Temperature <±0.5°C
configuration	DCS772 + MekuWin (PC)
transmitting interval	5 s5 min
sensor connection	External sensor in M12
power supply	1.5V alkaline battery size LR6 (AA)
battery life	Typically > 2 years
dimensions	60 X 435 X 33 mm
protection class	IP65 (when connected)
note	External M12 connector to connect
	RTD probe or cable sensor

article 94247

article 95411 number of channels 2 inputs Internal Pt100 sensor and humidity sensor output MTR wireless radio signal frequency 433.92 MHz maximum range 1000 m [open space] operating range -30...+60°C humidity range 0...100% Rh accuracy Temperature <±0.5°C Humidity ±5% (10...90% Rh) configuration DCS772 + MekuWin [PC] transmitting interval 5 s...5 min sensor connection Internal sensor power supply 1.5V alkaline battery size LR6 (AA) battery life Typically > 3 years dimensions 60 X 392 X 33 mm protection class IP40 (when connected) **note** Sintrated filter. Other types available as an option.

MTR SERIES

WIRELESS TRANSMITTERS 433.92 MHz



HUMIDITY AND TEMPERATURE

note Typical application is

in apartments

temperature measurement







TRANSMITTER WITH UNIVERSAL INPUT

selectable by jumper



FT20-RTC433-REPEATER

	BEAT10-T, BEAT10-RH	IT I	FTR264		MTR265B		FTR262	
article	BEAT10-T: 96130		96985		95858		93212	
	BEAT10-RHT: 96129	number of channels	4	number of channels	1	number of channels	1	
number of channels	BEAT10-T: 1	inputs	Thermocouple B, C, D, E, G, J,	inputs	Pt100, thermocouple K, J, T,	inputs	Pt100, thermocouple K, J, T, E, L,	
	BEAT10-RHT: 2		K, L, N, R, S, T, -302000 mV		E, L, N		N, 02000 mV, 010 V, 0100 V,	op
inputs	BEAT10-T: temperature	output	MTR wireless	output	MTR wireless		0/420 mA	
	BEAT10-RHT: temperature,	radio signal frequency	433.92 MHz	radio signal frequency	433.92 MHz	output	MTR wireless	
	humidity	maximum range	20100 m	maximum range	300 m (open space)	radio signal frequency	433.92 MHz	
output	MTR wireless	operating range	-30+60°C	operating range	-30+70°C	maximum range	1000 m (open space)	
radio signal frequency	433.92 MHz	accuracy	0.05% rdg +0.01 mV	accuracy	Temperature <±0.2°C Pt100	operating range	-30+60°C	
operating range	-30+60°C	•	0.05% rdg +0.6°C + lin.	•	sensor <±0.75°C or <±1.5°C	accuracy	±0.2°C Pt100 sensor	
humidity range	0100% Rh	transmitting interval			TC**	•	±0.75°C or ±1.5°C TC**	
accuracy	<±0.5°C, on temperature	sensor connection	Screw terminal 1,5 mm2	transmitting interval	5 s5 min	transmitting interval	5 s5 min	
	range 030°C.	power supply	1.5V alkaline battery size	sensor connection	External sensor in M12	sensor connection	Screw terminal 1,5 mm2	
	Rh ±5% on humidity range		LR6 (AA)	power supply	1.5V alkaline battery size LR3	power supply	1.5V alkaline battery size LR6	
	1090% Rh	battery life	Typically > 2 years		[AAA]		[AA] X 2	
transmitting interval	5 s5 min		102 X 135 X 35 mm	battery life	Typically > 1,5 years	battery life	Typically > 3 years	
power supply	1.5V alkaline battery size	protection class	IP65	dimensions	172 X Ø 29 mm	dimensions	80 X 130 X 60 mm	
	LRO3 [AAA]	note	Typically utilized for	protection class	IP65	protection class	IP65	
battery life	Typically > 1,5 years		measuring temperature in	note	Wall mounting bracket	note	Sensor type is easy to change by	
•	60 X 352 X 33 mm		concrete structures		included		configuration software MekuWin.	
protection class							Battery or external power supply	
							1 11 7	

article 95328

REPEATER

inputs Radio signal, 433.92 MHzoutput MTR wireless

operating range -30...+60°C
configuration MekuWin (PC)
power supply 8...30 VDC

note Used for radio range extension

BASE STATIONS





article 3G: 97322

LAN: 97268

inputs Radio signal frequency 433.92 MHz MTR

& 2,4 GHz Ovanet

output 2G/3G, Ethernet

number of channels Unlimited node count

non-volatile memory Buffer memory, data storaging (web)

data processing Ovaport (web)

serial data RS485

protocol master Nokeval SCL, Modbus RTU

operating range -20...+45°C

power supply 8...28 VDC, rechargeable backup battery

installation Field enclosure (PC+ABS)

protection class IP65



article 97908

inputs Radio signal frequency 433.92 MHz MTR

& 2.4 GHz Ovanet

output 2G/3G

number of channels Unlimited node count

non-volatile memory Buffer memory, data storaging (web)

data processing Ovaport (web) serial data RS485

protocol master Nokeval SCL, Modbus RTU

operating range -20...+45°C

power supply 8...28 VDC, 2 X D battery backup

installation Field enclosure (PC+ABS)

protection class IP65



IT MIGHT OCCUR TO YOU THAT OVA IS MORE THAN JUST A SURVEILLANCE SYSTEM. WE SEE IT AS A COMPREHENSIVE SERVICE, READY TO BE DEPLOYED WHERE NEEDED THE MOST. PRACTICAL SOLUTIONS INSTEAD OF GIMMICKS. GATHERING ALL CRUCIAL INFORMATION NEATLY IN ONE PLACE WHILE YOU ARE DOING THE THINGS YOU ACTUALLY WANTED TO DO.

