

NEX.U[®]

FLUID MANAGEMENT SYSTEM



BOOST PRODUCTIVITY
INCREASE EFFICIENCY
REDUCE WASTE



WHO?

Since 1958, SAMOA Industrial is a privately owned leading European manufacturer of Pumps & Systems for complex fluids.

Our products are mainly used for lubrication, fluid processing (transferring, dispensing, and dosing), coating & paint treatments, and high viscosity fluid dispensing.

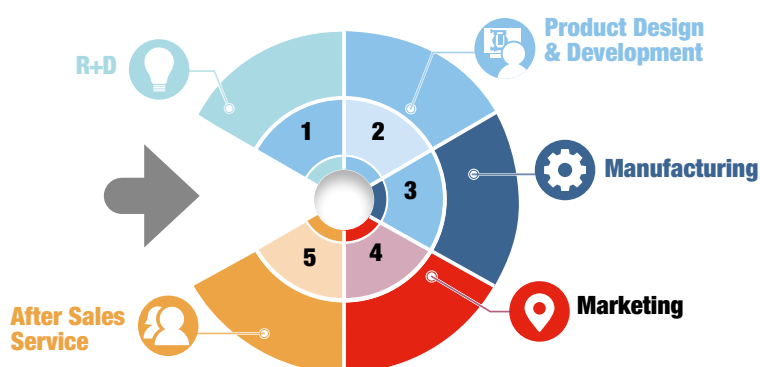
SAMOA designs, develops, and manufactures lubrication equipment, industrial air operated piston pumps, air operated double diaphragm pumps, spraying systems and extrusion units.

WHY?

Product Quality.
Product Reliability.
Product Efficiency.
Environmental Concern.

WHERE?

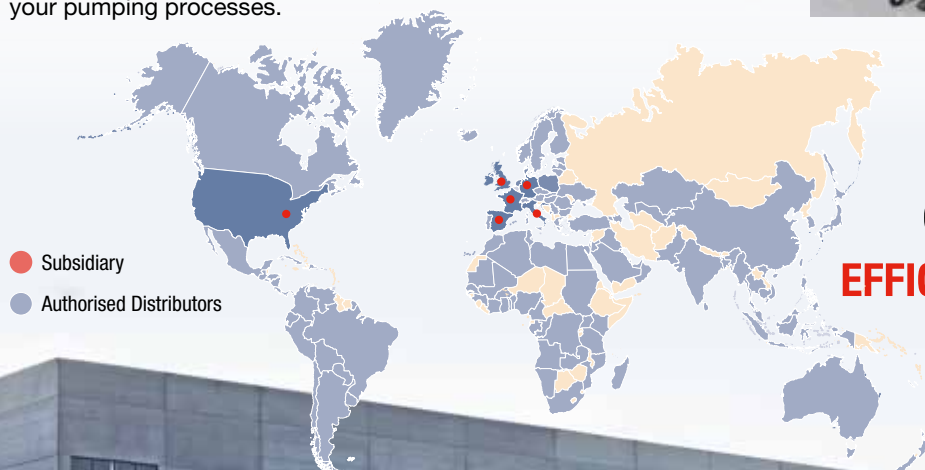
Present in 100 + Countries through our own subsidiaries and authorised distributors.



SAMOA ELECTRONICS

In 1999 SAMOA acquired the French company A3B that designed and manufactured electronic fluid management systems for vehicle dealerships and workshops.

Since then, SAMOA has been developing new electronic systems and software to control, measure, and monitor pumps and bulk fluids. This new electronic systems, like NEX·U·, have been on the market since 2016. Thanks to our R&D Electronics Department - consisting of software, electronics, and telecommunications engineers - and our clean room for electronic systems production, SAMOA ensures top quality products that increase productivity and reduces carbon footprint in your pumping processes.



QUALITY
EFFICIENCY
product

RELIABILITY

environmental
CONCERN



WHAT IS NEX·U·®?

NEX·U.® is an innovative fluid management system that provides the control and the information you require to make your operations more profitable. You will be able to account for every drop of lubricant or any other service fluid used. Additionally, you will efficiently keep inventory control, using automatic alerts and automatic reordering when needed, eliminating operation downtime. Accurate control of expensive lubricants and other service fluids makes that NEX·U.® investment is quickly paid back, regardless of the shop's size.

NEX·U·® COMPONENTS

U-TRACK SOFTWARE

- Manages work orders.
- Tracks your transactions.
- Monitors fluid Inventory.
- System warnings alerts.
- Integrates with DMS.
- Produces data reports.

U-NET

- Controls and manages all functions and communications.
- Includes U-track software.

U·DAT

- System Keypad.
- Provides access to NEX-U®.
- Full colour touch screen and complete QWERTY Keypad.

U·VISION+

- Hand-held display with keypad
- Bluetooth® communication with a single U-valve or U-meter+.

U·LINK

- Dispense gun with meter, valve and keypad.
- Wireless communication with U-track software.
- Accurate dispensing.
- No cables required

U·VALVE

- All-in-one flow control unit with pulse meter, solenoid valve, filter and electronics.
- Allows operation control and communication with other system components.
- Bluetooth®

U·METER

- Pulse meter with electronics to control solenoid valve.
- High accuracy.
- Bluetooth® communication with U-vision and U-vision+ (U-meter+ only).

U·VISION

- Hand-held display module to fit a SAMOA oil control handle.
- It Includes a backlight display, connected via Bluetooth® with a U-valve, U-meter+ or U-count module.

U·VIEW

- Remote, high visibility, LED display that shows the volume delivered through different U-valves.

U-TANK MODULE

- Monitors tank levels.
- Avoids tanks running empty.
- Avoids spillover.
- Level alerts.

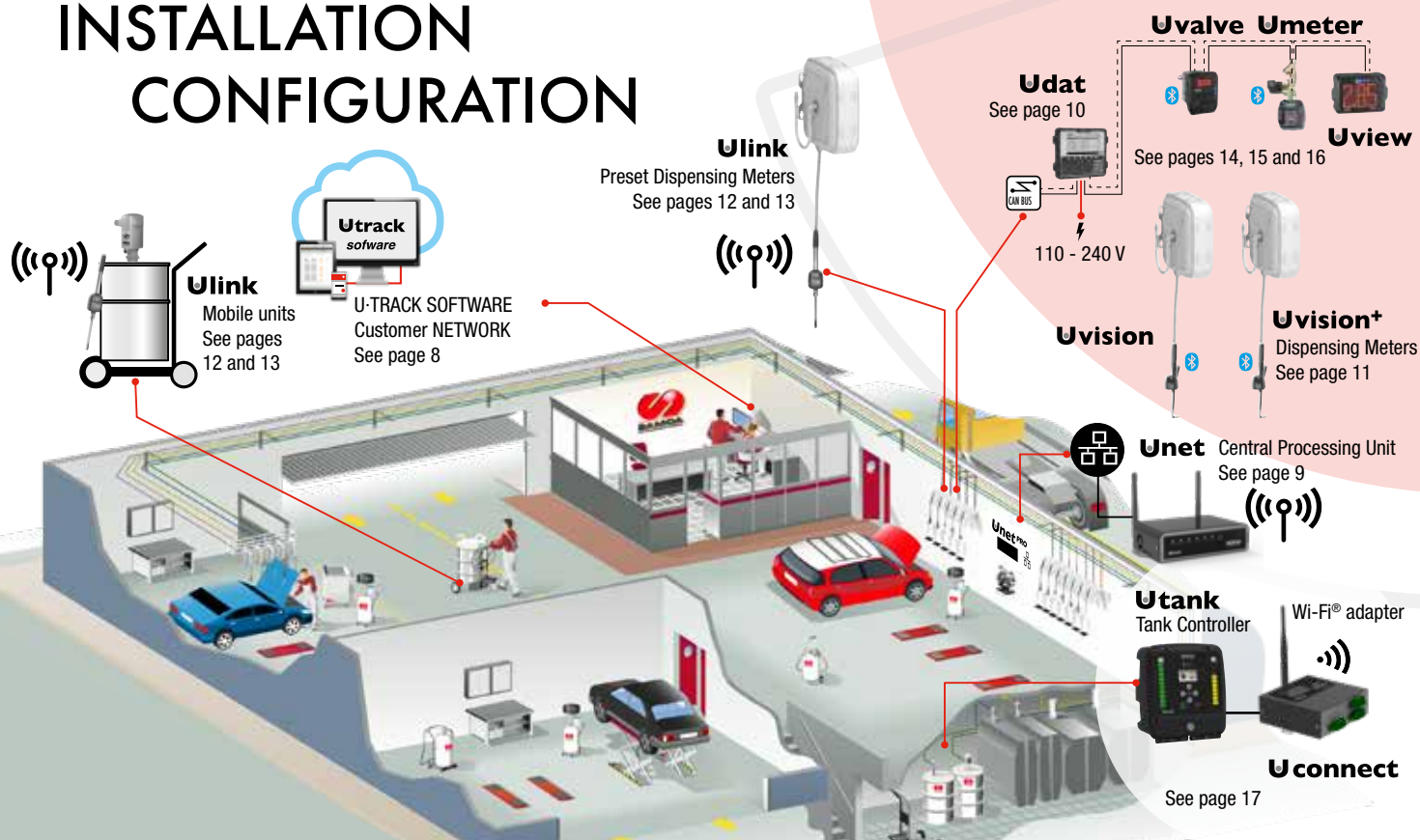
U-CONNECT

- Canbus to WiFi® converter.

U-COUNT

- U-count allows the use of any pulse meter and solenoid valve in the NEX·U.[®] System.

INSTALLATION CONFIGURATION



NEX·U·® BY SAMOA: Fluid management made easy

NEX·U·® HYBRID TECHNOLOGY offers wired and wireless advantages for increased productivity

NEX·U·® WIRED INSTALLATION

- Reliable connection
- No battery issues
- Increased reliability and dependability

NEX·U·® WIRELESS INSTALLATION

- Reduces installation cost avoiding long cable runs.
- Allows control of mobile dispensing units.
- Simpler installation, with less components

KEEPING FLUID TRACK: Benefits of using a fluid management system



MONITOR



CONTROL



TRACK



BOOST PRODUCTIVITY
INCREASE EFFICIENCY
REDUCE WASTE



MAXIMIZE PROFITABILITY &
REDUCE CARBON
FOOTPRINT



BENEFITS OF USING a Fluid Management System

MONITOR

- Real time information about fluid transactions and inventory.
- Inventory management (refills schedule, warnings, etc.)
- Automatic alerts.

CONTROL

- Reliable dispensing.
- Safety.
- Accuracy.

TRACK

- Account for every drop of lubricant and other vehicle service fluids used.
- Reconcile fluid purchases and inventory with fluid sales and use.
- Supervise technician activity.
- DMS integration.



- Increased reliability and full track of fluid transactions.
- Improved productivity.
- Accurate dispense.
- Reduced downtime costs.
- No tank stock-outs or spill-overs.
- No tank refill delays.

LOST INVENTORY EQUALS LOST PROFIT. WITH TODAY'S HIGH OIL PRICES, INVENTORY CONTROL ELIMINATES THIS CONCERN.

WHY NEX·U®?

HYBRID TECHNOLOGY

The system can be installed as a fully wireless system or as a wired system. Possibility to control mobile units.

DMS INTEGRATION

Optional API is available for integrations with 3rd party's DMS.

EASY OPERATION

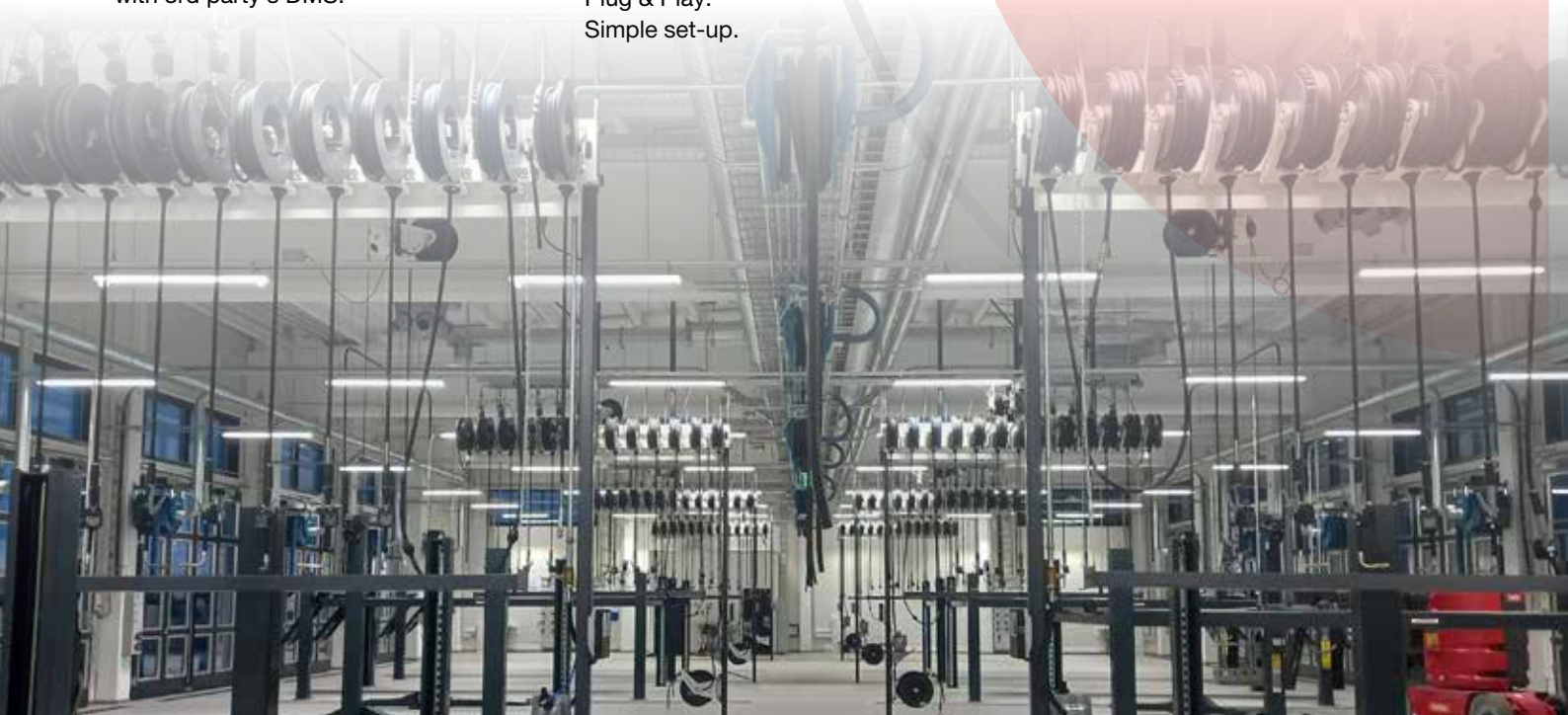
Quick and easy data entry.
Reduced in order preparation time.
Reduced downtime due to oil shortage.

SIMPLE

Intuitive software.
Plug & Play.
Simple set-up.

INCREASED PRODUCTIVITY

Keep control of service fluids.
Control every transaction from the dispensing valve, without walking back and forth.



DMS - DEALER MANAGEMENT SYSTEM

NEX·U.® can interface with most popular DMS on the market, offering an efficient bidirectional communication between NEX·U.® and DMS

FEATURES

- Easy to use: quick and effective
- Enhanced security: work orders are checked and validated before fluid is dispensed.
- Automation: simplifies data entering as it can be automatically downloaded from the DMS.

Ulink



OR

Udat



OR

VIRTUAL KEYPAD



OR

Uvision+



Contact your SAMOA Distributor who will assist you with the license software you need.

U-NET SENDS DATA TO DMS



U-net



DMS CHECKS AND VALIDATES THE INFORMATION

SAMOA INTERFACE

A bidirectional communication is established through web service. The user enters his PIN and the work order number.

DMS will prompt a message whether this information exists or not.

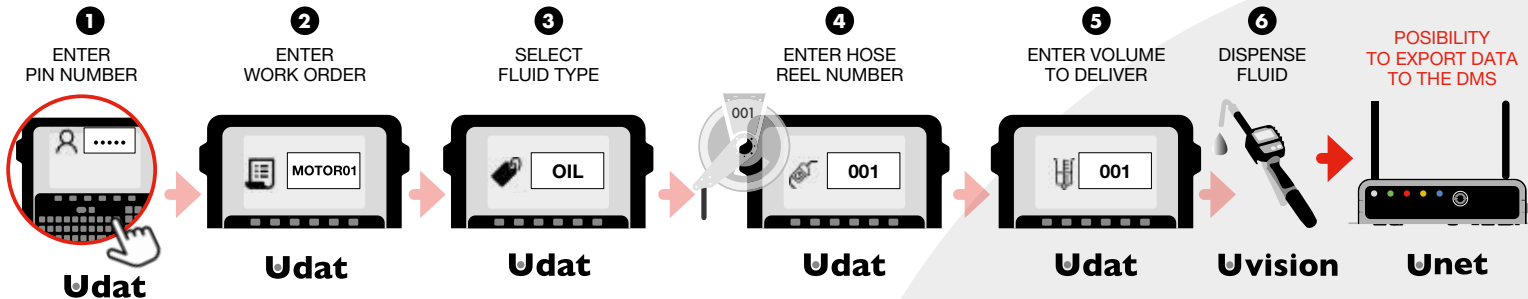
NEX·U.® offers multiple dispensing modes depending on the customer needs.

DISPENSING MODE OPTIONS

1.1

STANDARD MODE USING U-DAT®

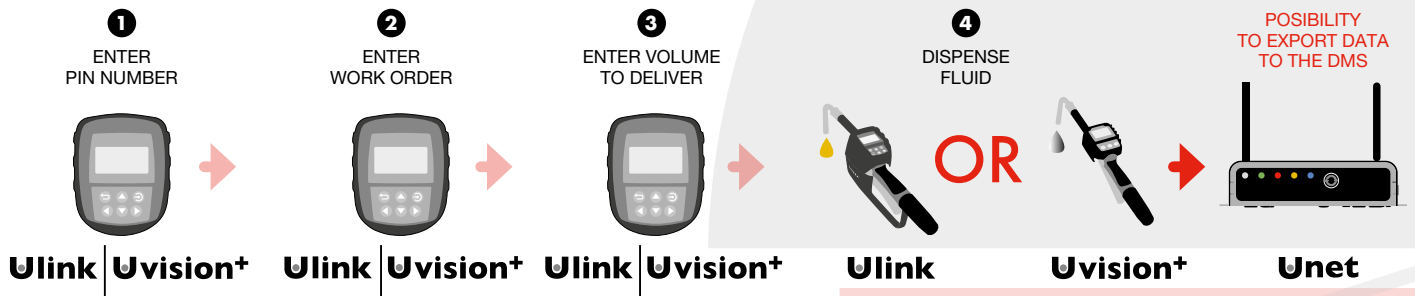
After entering PIN and work order number, the technician must select the type of fluid to be delivered, the hose reel number and enter the volume to deliver.



1.2

STANDARD MODE USING U-LINK® | U-VISION+®

After entering their PIN and work order number, the technician must enter the volume to deliver.

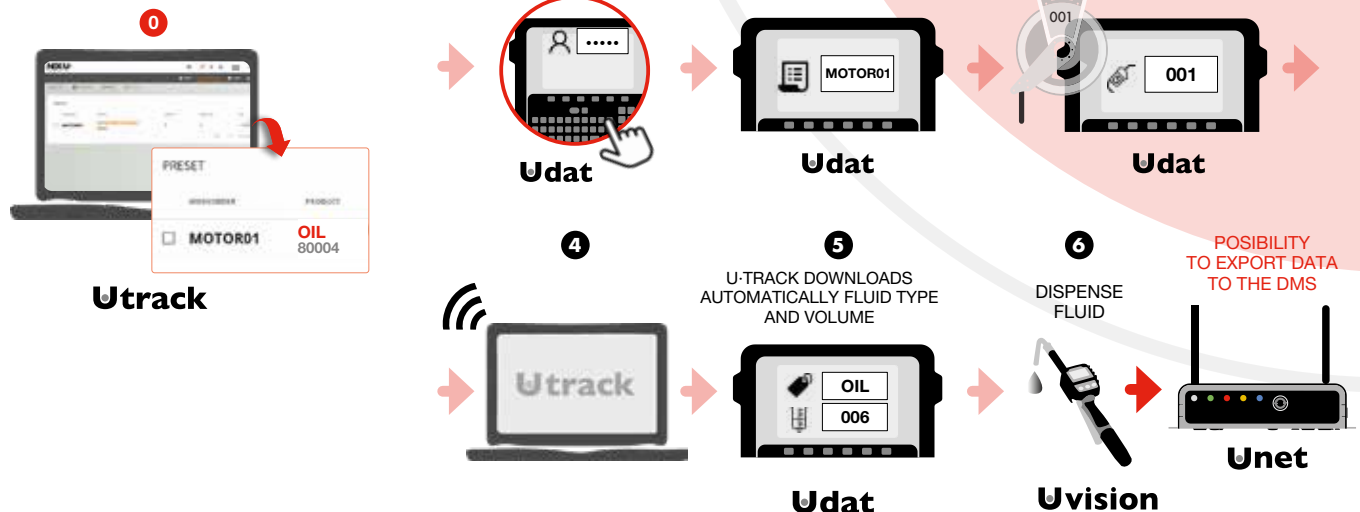


2.1

PRESET MODE USING U-DAT®

A previous set up must be done in U-track before validation, as figure 0 shows. After entering the PIN, work orders and hose reel numbers, the system downloads the preset volume of the type of fluid associated to the work order entered.

THE SHOP MANAGER MUST PREVIOUSLY ENTER THE FLUID AND VOLUME ASSOCIATED TO EACH ORDER NUMBER.



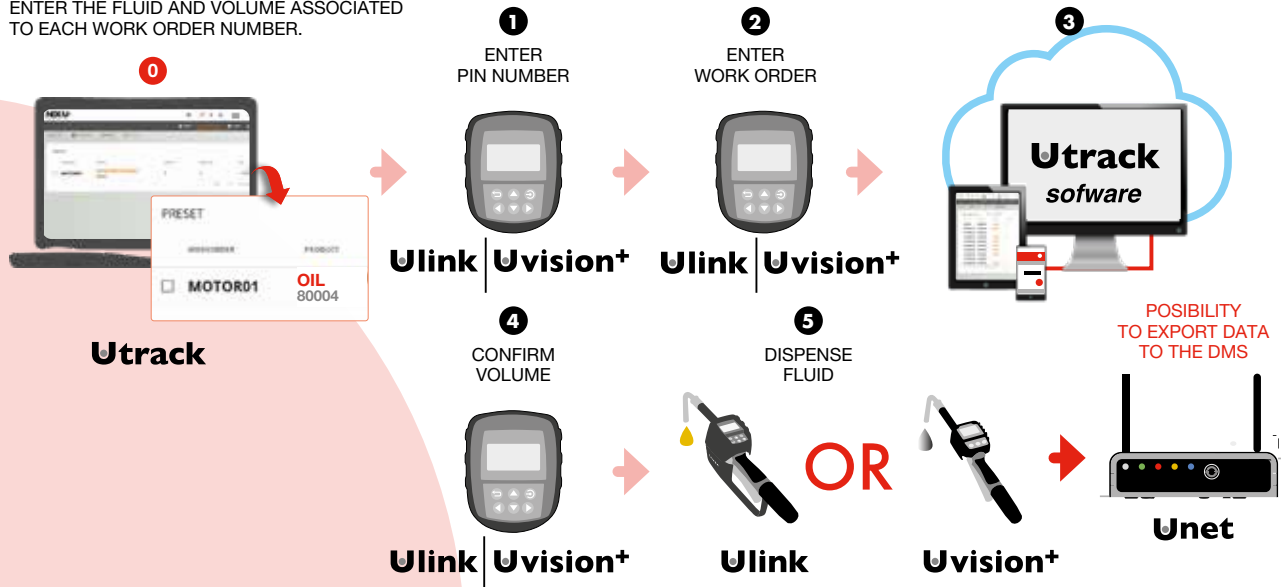
DISPENSING MODE OPTIONS

2.2

PRESET MODE USING U·LINK | U·VISION⁺

A previous set up must be done in U-track before validation, as figure 0 shows. After entering the PIN, the technician can scroll the existing work orders, and select the desired one. NEX·U·[®] downloads the preset volume associated with the work order selected.

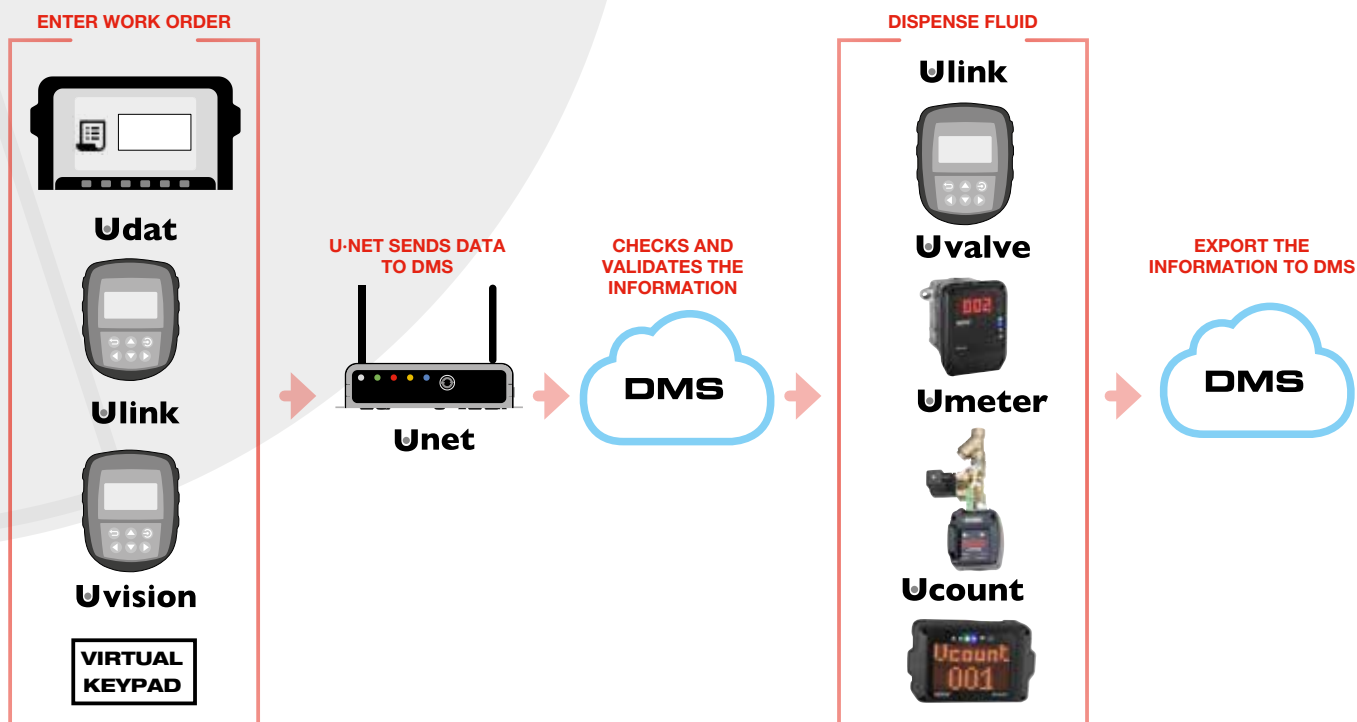
THE SHOP MANAGER MUST PREVIOUSLY ENTER THE FLUID AND VOLUME ASSOCIATED TO EACH WORK ORDER NUMBER.

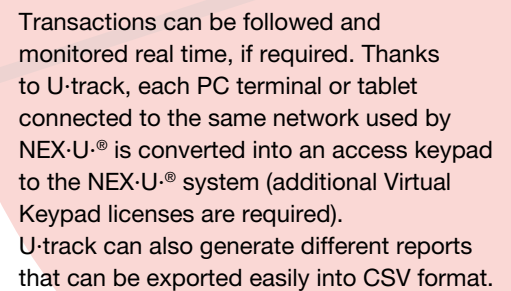


3

DMS - INTEGRATED MODE USING U·DAT, U·LINK, U·VISION⁺, VIRTUAL KEYPAD

From any device connected to the same network as the U-net, the user can launch the transaction, even through DMS integration, and then start it using U-dat, U-link or U-vision⁺



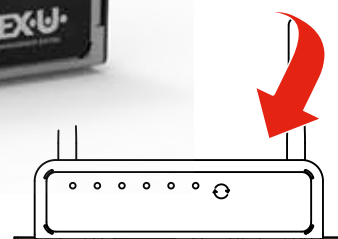


U·NET: NEX·U® SYSTEM CENTRAL PROCESSING UNIT

U-net includes a powerful 2.4 GHz processor and 4 GB RAM. It controls the system functions and it manages the wired and wireless communication among the NEX·U® components.

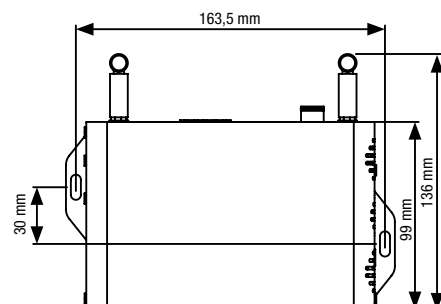
It has two CAN BUS ports (in/out) for wired communications with other NEX·U® components and an Ethernet port that allows U-net to connect to the LAN. It also deploys a dedicated radio frequency network for communication with U-link wireless metered dispense valves.

U·net



U-net specifications:

- Intel 2,4 GHz processor
- 4 GB RAM memory
- 64 GB storage capacity
- One Ethernet connection, one HDMI, four USB and two CAN BUS communication ports and Radiofrequency emitter
- 110-240V AC - 5V DC transformer included



U·NET ALSO INCLUDES THE U·TRACK SOFTWARE

U-track is a powerful web based software package that gives you full control of fluid usage and inventory. It is a web based software that allows multi-user applications. All PCs or tablets in the same network and in the same location can have access to U-track. U-track can work using web browser. Compatible with: Chrome, Firefox, Microsoft Edge.

THANKS TO U·TRACK YOU WILL BE ABLE TO:

- Simple and intuitive system set-up.
- Simplified system maintenance (manage users, fluid inventory, etc.)
- Manage all the system hard-wired and wireless communication.
- Generate a wide variety of reports, which can be easily exported to csv and txt formats.
- Transform any PC terminal in the workshop into a NEX·U® Virtual Keypad (license required).

U·TRACK ALSO CONTRIBUTES TO INCREASE YOUR OPERATIONS EFFICIENCY AND PROFITABILITY:

- Keeps control of every fluid drop dispensed in the system.
- Improves inventory accuracy, generating automatic warnings and email notifications for reorders at critical predefined inventory levels.
- Generates a variety of reports, to help you track dispense information such as date and time, technician, work order, fluid dispensed, volume delivered, etc.

SYSTEM ACCESS AND CONTROL

NEX·U® adapts to the way you work offering multiple possibilities for accessing the system

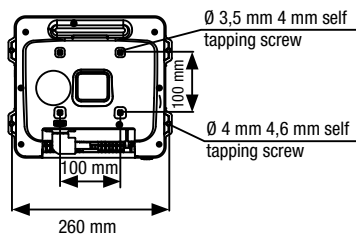
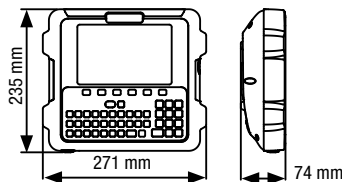
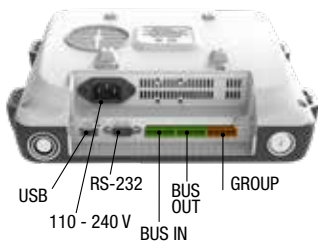


Udat Udat power⁺

U·DAT ALLOWS SYSTEM ACCESS TO TECHNICIANS EITHER THROUGH A PIN CODE OR USING A RFID CARD

- U·dat includes a 7" full colour graphics display and a complete QWERTY keypad.
- U·dat supports CAN BUS cable communications that transmits data and power to open the solenoid valves in the system. "Plug-and-play" connectors make cabling easy.
- U·dat power includes the transformer required to simultaneously open up to 8 solenoid valves.
- U·dat requires 110 - 240 V 50/60 Hz power supply.
- Optional Bluetooth® printer (see accessories).

U·DAT ACCESS KEYPAD



U·DAT CONNECTION PANEL

All wired connections can be quickly and easily done without opening the U·dat. It is possible to connect a printer, an external RFID reader, or a QR reader to the RS-232 port.

U·DAT
110 - 240 V AC CAN BUS in/out

ORDERING INFORMATION

Part No.	Description
383 000	U·dat power ⁺ Keypad NEX·U® access keypad with 7" colour screen and QWERTY Keypad. One USB, one RS232 and in/out CAN BUS ports. 110 - 240 V AC 50/60 Hz, with a 320 W transformer to open 8 solenoid valves, supports CAN BUS communications.
383 020	U·dat Keypad Same as above, but with a 75 W transformer, to open 2 solenoid valves.
383 915	Universal VESA 100 bracket
953001	Power cable C13EU2M

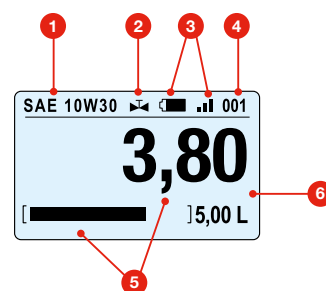
U·VISION⁺: HAND-HELD DISPLAY AND KEYPAD MODULE

U·vision⁺ includes a six-button keypad and it can replace the U·dat Keypad for data entry in the system as it allows the following operations:

- User access through PIN entry.
- Scroll through existing open job orders to select the one corresponding to each operation or enter the job order number (can do alphanumeric).
- Enter the volume of fluid to be dispensed.
- Confirm fluid type and transaction.

U·vision⁺ has a backlight display connected using Bluetooth® with a U·valve, U·meter⁺ or U·count and it displays the following parameters:
U·vision⁺ is powered with 4 “AA” 1.5 V alkaline batteries.

Uvision⁺



- 1 Fluid dispensed type.
- 2 Solenoid valve open or closed.
- 3 Battery life and Bluetooth® signal.
- 4 Hose reel / fluid outlet number.
- 5 Volume delivered and operation progress.
- 6 Preset volume.

Two possible dispensing modes: Standard and Preset



STANDARD MODE



PRESET MODE



U·vision⁺ adapts to any SAMOA 1/2" fluid control handle and transforms the handle into a hand-held display and keypad for access to the NEX·U.® system.

ORDERING INFORMATION

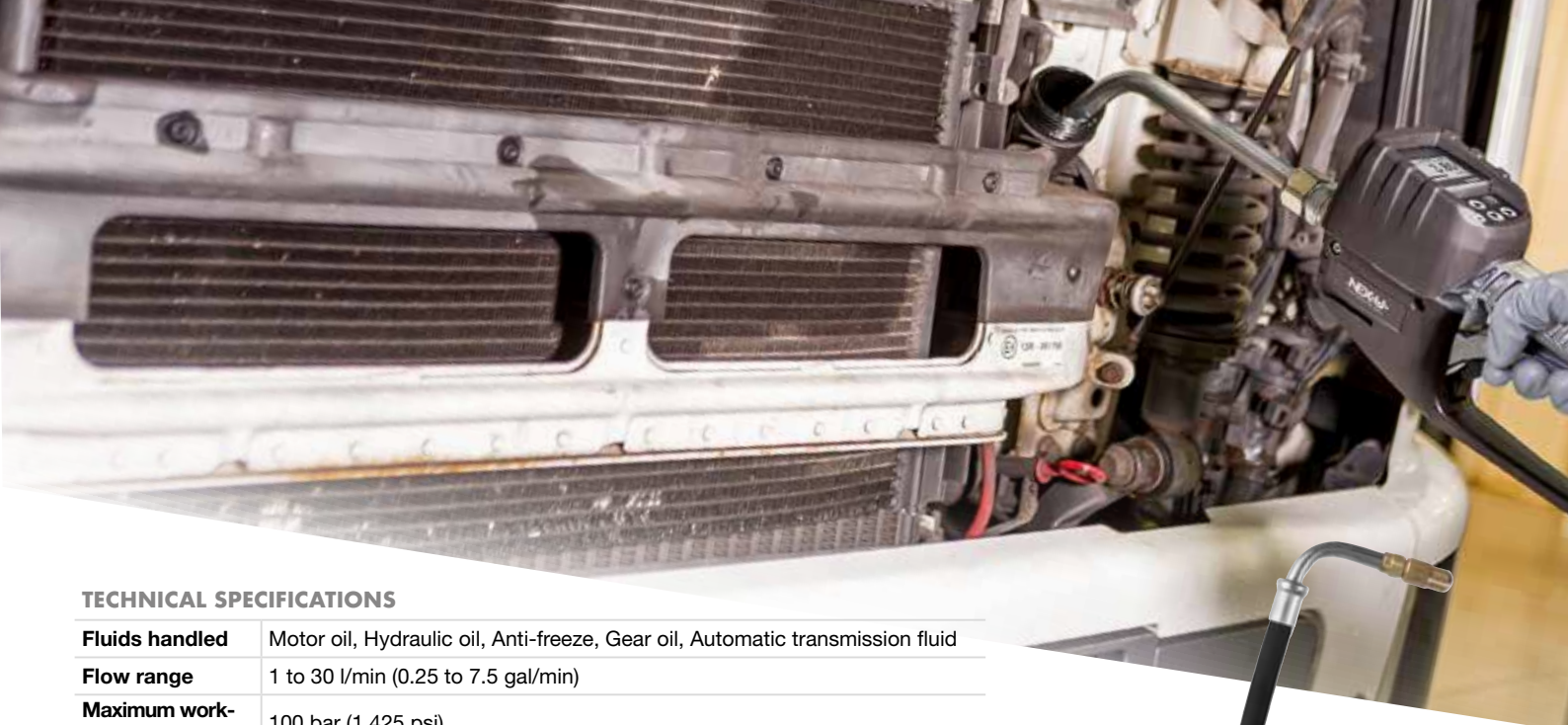
Part No.	Description
383 401	U·vision ⁺ hand-held keypad and display module. (Oil gun not included).

U·LINK: WIRELESS DISPENSING METER VALVE

Ulink

- Dispensing Meter Valve with wireless communication
- Includes hand-held System Access Keypad that allows full transaction control.





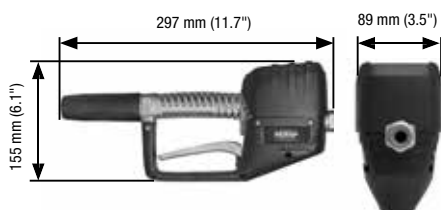
TECHNICAL SPECIFICATIONS

Fluids handled	Motor oil, Hydraulic oil, Anti-freeze, Gear oil, Automatic transmission fluid
Flow range	1 to 30 l/min (0.25 to 7.5 gal/min)
Maximum working pressure	100 bar (1,425 psi)
Accuracy	± 0.5 % (Oil); ± 1 % (Coolant solutions)
Inlet	1/2" BSP (F)
Outlet	1/2" BSP (F)
Working temperature range	-10 °C to 50 °C (14 °F to 122 °F)
Battery	4 x "AA" Alkaline 1.5V
Viscosity Range	Up to 2000 mPa.s
Display	LCD
Wetted parts	Aluminium, AISI 316 Stainless Steel, Buna-N, Delrin, Brass, Zinc plated steel
Weight (with no outlet)	4,6 lb (2,1 kg)

Category	Specification
Regulatory Approvals	FCC (EEUU), ETSI (Europe), IC (Canada), KCC (Korea), TELECK (Japan), RCM (Australia), Anatel (Brazil)
Frequency band	ISM 2.4 GHz, DSSS (Direct Sequence Spread Spectrum)
Protocol	Wireless Radio Frequency communication
Encryption	128/256 bit AES

ORDERING INFORMATION

Part No.	Description
383 405	U-link, no outlet
383 406	U-link, with 60° rigid outlet and 1/4 turn non-drip tip
383 407	U-link, with 90° flexible outlet and 1/4 turn non-drip tip



VOLUME METERS

U-VALVE: COMPACT UNIT OF PULSE METER, SOLENOID VALVE, FILTER AND COMMUNICATIONS

U-Valve is a compact unit that combines a high accuracy pulse meter, a solenoid valve and a large, cleanable fluid screen filter with an electronic module. The electronic module controls the meter and valve operation, and the communication with other system components.

- Reduces installation time. Less leak points than separate components.
- Large, highly visible LED display shows system number assigned and operation.
- Four coloured LED lights show operation for diagnosis. Two buttons for system configuration.
- Supports CAN BUS cable communication, transmits data and electric power to open the solenoid valve.
- Bluetooth® connection to a U-vision/ U-vision+ fluid handle with display.
- U-valve requires 24 V DC supplied by U-dat or U-power module.

Uvalve



Uconnect

U-valve can connect to the WiFi® network using U-connect



PRODUCT SPECIFICATIONS

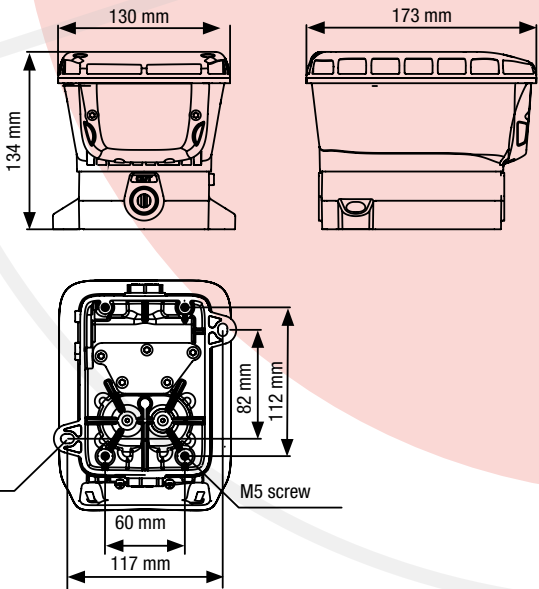
Applications	Lubricants, antifreeze solutions*
Wetted parts	Aluminium, NBR, stainless steel, acetate
Connection threads	1/2" BSP (F)
Flow range	1 - 30 l/min
Pulses per litre	328 ppl
Accuracy	+/- 0,5 %
Max. working pressure	100 bar
Solenoid valve	24 V DC
Communication	CAN BUS, Bluetooth®

* If fluid additives are used, it is recommended to install stainless steel pulse meter and stainless steel solenoid valve.



U-valve and U-valve+ wired connections use fast connection in/out CAN BUS terminals.

U-valve cable connectors are not included (see accessories).



ORDERING INFORMATION

Part No.	Application
383 501	U-valve meter, solenoid valve and electronic module. Includes Bluetooth® communication for connecting to a U-vision or U-vision+.

U-meter

U-meter+

High accuracy, compact pulse meter including the electronic module required to control the meter, the solenoid valve operation and the communication with other system components through CAN BUS.



**Wireless Module Kit
(Part No. 381 909)
available to convert
U-Meter to U-Meter+**

U-meter+ includes Bluetooth® for connecting to a U-vision or U-vision+.

U-meter Part No.	381 513	383 525	383 522	383 520
Wetted parts	Aluminium, NBR, stainless steel, acetal	Aluminium, NBR, stainless steel, acetal	PVC, Vectra®, stainless steel, Viton®	Stainless steel, Vectra®, Viton®
Applications	Lubricants	Lubricants, diesel	DEF/AdBlue®, windshield wash and antifreeze solutions (low pressure)	DEF/AdBlue®, windshield wash and antifreeze solutions (high pressure)
Connection threads	1/2" BSP (F)	3/4" BSP (F)	1/2" BSP (F)	1/2" BSP (F)
Flow range	1 - 30 l/min	8 - 80 l/min	1 - 50 l/min	1 - 50 l/min
Pulses per litre	328 ppl	109 ppl	320 ppl	320 ppl
Accuracy	+/- 0,5 %	+/- 0,5 %	+/- 0,5%	+/- 0,5%
Maximum working pressure	100 bar	100 bar	30 bar	100 bar
Communications	CAN BUS	CAN BUS	CAN BUS	CAN BUS
U-meter+, models with Bluetooth® Part No.	383 514	-	383 523	383 521

Only for connection with U-dat, U-valve, or an adjacent U-meter. Requires a 24 V DC solenoid valve.

U-METER AND SOLENOID VALVE KITS

U-METER AND SOLENOID VALVE KITS INCLUDE A HIGH PRECISION U-METER OR U-METER+ METER, A SOLENOID VALVE AND A Y-STRAINER.

Part No.	Application	Pulse meter	Y-strainer	Solenoid valve
383 550	Lubricants, antifreeze solutions	U-meter 381 513	950 372	389 001 ⁽¹⁾
383 551	Lubricants, antifreeze solutions	U-meter+ 383 514	950 372	389 001
383 552	High delivery lubricants, antifreeze solutions	U-meter 383 525	950 373	389 002
383 553	High delivery lubricants, antifreeze solutions	U-meter+ 383 526	950 373	389 002
383 554	Diesel fuel	U-meter 383 525	950 374	389 002
383 556	DEF / AdBlue®, windshield wash (low pressure)	U-meter 383 522	950 372	389 004
383 557	DEF / AdBlue®, windshield wash (low pressure)	U-meter+ 383 523	950 372	389 004

NEX-U-® requires 24 V DC, normally closed except for overfill (normally open) solenoid valves to operate. U-valve and U-valve+ include a solenoid valve. For other metering elements, a solenoid valve compatible with the fluid and the application requirements must be used.



Part No.	Application and wetted materials	Connection threads	Voltage	Type	Max. Working pressure
389 001*	Oil and antifreeze solutions. Brass and NBR	1/2" BSP (F)	24 V DC	N.C.	50 bar
389 002	Coolant, diesel, water, oil. Brass and NBR	1/2" BSP (F) High Flow	24 V DC	N.C.	50 bar
389 004	DEF / AdBlue®; antifreeze and windshield wash solutions, stainless steel and EPDM	1/2" BSP (F)	24 V DC	N.C.	10 bar
389 021	Electro-pneumatic valve U-tank. Prevents over fill of waste fluid tanks. Brass and NBR	1-1/2" BSP (FF) for fluids 1/4" BSP (FF) for air	24 V DC and 1-4 bar compressed air	N.O.	10 bar

N.C.= Normally closed. / N.O.= Normally open.

* For use in standard delivery applications, with a 1/2" U-meter.

NEX·U.® REMOTE DISPLAYS

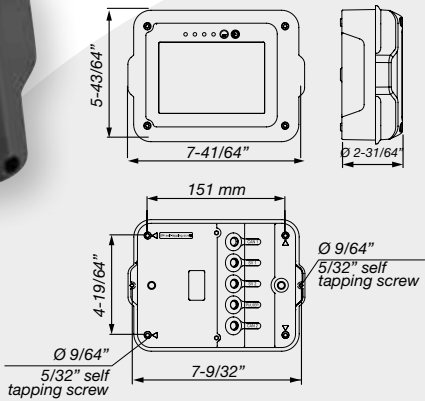
Ucount

U-count allows the use of any pulse meter and solenoid valve in the NEX·U.® system. U-count control module includes a high visibility LED display and the software required to communicate with the rest of the NEX·U.® system components.

U-count support CAN BUS hard wired cabling to transmit power, required to open the solenoid valve, and data, for communication with other system components. It can also communicate with a U-vision or U-vision+ using Bluetooth®.



ATENCIÓN!
XXX CAMBIAR UNIDADES
U-COUNT DIMENSIONS



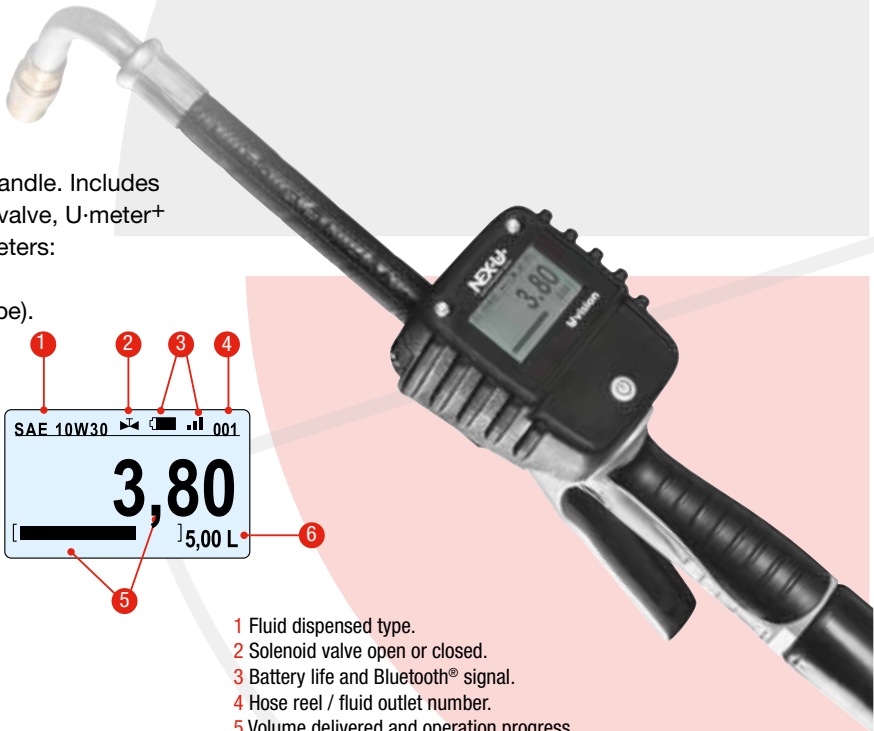
Uvision

Hand-held display module to fit a SAMOA oil control handle. Includes a backlight display connected via Bluetooth® with a U-valve, U-meter+ or U-count module and it displays the following parameters:

- Hose reel (fluid outlet number and fluid dispensed type).
- Battery life and Bluetooth® signal strength.
- Volume delivered and operation progress.
- Solenoid valve open or closed.

ORDERING INFORMATION

Part No.	Description
383 400	U-vision hand-held display module. (Outlet and handle not included).



- 1 Fluid dispensed type.
- 2 Solenoid valve open or closed.
- 3 Battery life and Bluetooth® signal.
- 4 Hose reel / fluid outlet number.
- 5 Volume delivered and operation progress.
- 6 Preset Volume.

Uview



Remote, high visibility, LED display that shows the volume delivered through various U-valves (no simultaneous operation supported). U-view supports and no hyphen hardwired communication. U-view requires no hyphen hardwired connection (data and power) to a U-dat Keypad or to a 110 - 240 V AC power supply using a 24 V DC (U-power or U-power+).

ORDERING INFORMATION

Part No.	Description
383 700	U-view remote display module

NEX·U.® CONNECTABILITY ACCESSORIES

U·power



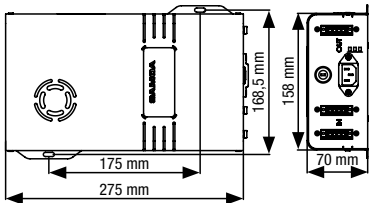
383 150 - 383 151

U·power+



383 152

Power supply to solenoid valves and other system components. U·power connects using CAN BUS cable to a U·valve, U·valve+, U·meter, U·meter+ or U·count whenever the power supplied by a U·dat Keypad is not present.



ORDERING INFORMATION

Part No.	Description
383 151	U·power. Power supply unit with a 75 W transformer for use with 2 solenoid valves.
383 150	U·power+. Power supply unit with a 320 W transformer for use with 8 solenoid valves with 2 CAN BUS connectors.
383 152	U·power+. Power supply unit with a 320 W transformer for use with 8 solenoid valves with 3 CAN BUS connectors (1 IN and 2 OUT).

((⌋)) RF NETWORK EXTENDER

ORDERING INFORMATION

Part No.	Description
383 211	Expands the NEX·U.® Radio Frequency network coverage to reach remote areas.
383 212	1 m cable, UK plug connection
383 213	1 m cable, US, Japan plug connection
383 214	1 m cable Australia, China plug connection
383 215	1 m cable EU plug connection



383 211

U·connect CANBUS TO WI-FI® CONVERTER



383 210

ORDERING INFORMATION

Part No.	Description
383 210	U·connect allows wireless communication among the different components instead of CAN BUS wired communication. Equipped with an external antenna, it allows for extended WiFi® signal coverage.

U·TANK: TANK LEVEL MONITOR MODULE AND PUMP CONTROLLER

Provides real-time inventory control, reducing concerns about inventory shortage or used fluid tanks overflow

U·tank

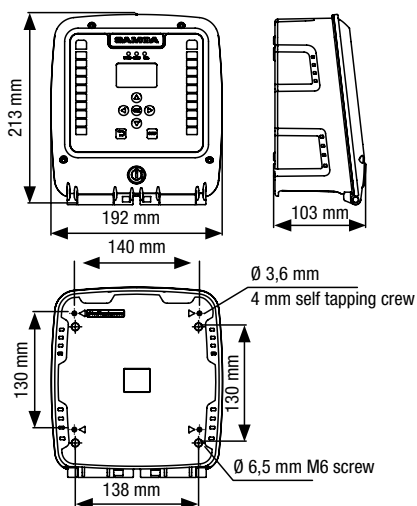


Tank Monitoring

It is a monitor module capable of controlling two tanks using digital or analog level gauges. Can be connected to solenoid valves, to control pump operation, and to external warning devices.

U-tank communicates with other NEX·U·® components using CAN BUS wired connection or WiFi® wireless connection (requires U-connect).

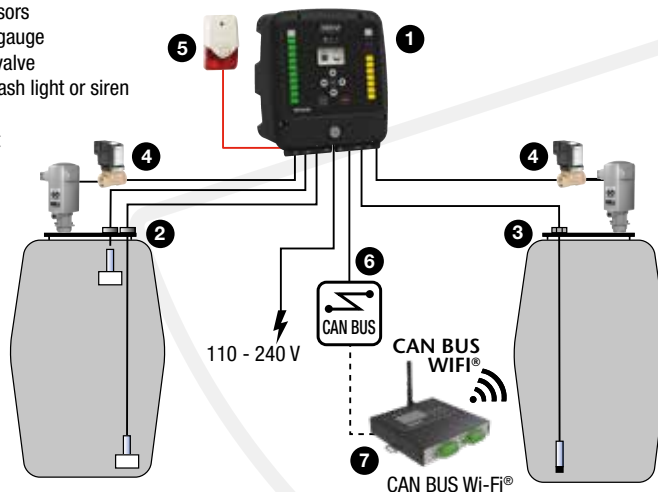
U-tank has two independent graphic displays and level bars. Each of them shows the inventory available in each tank. It also has a set-up keypad for inventory adjustment if required. ⁽¹⁾



INPUT AND OUTPUT PORTS

- One analog input per tank for a pressure probe with 4-20 mA or 0-10 V interface.
- Three digital inputs per tank for a low, intermediate or high-level probe ⁽¹⁾.
- One output per tank for a solenoid valve to control air supply to each pump.
- One output per tank for an electro-pneumatic valve to prevent tank overflow.
- One output per tank for controlling a flash warning light or an acoustic alarm. U-tank supports CAN BUS wired communication with other NEX·U·® system components. It requires a 110 - 240 V AC supply.
- One common output for controlling an air solenoid valve to stop the air supply to all pumps when the workshop is closed.

- 1 U-tank
- 2 Level sensors
- 3 Pressure gauge
- 4 Solenoid valve
- 5 Remote flash light or siren
- 6 CAN BUS
- 7 U-connect



ORDERING INFORMATION

Part No.	Description
383 100	U-tank tank monitoring module. Can control up to two tanks. Supports CAN BUS communications. 110 - 240 V

⁽¹⁾ The use of digital probes does not allow real-time inventory monitoring. NEX·U·® will use declining balance for inventory control and will require manual inventory adjustment when fluid is supplied to the tank.

NEX·U·[®] COMPACT

NEX·U·[®] also offers solutions to smaller workshops where web based software is not needed. NEX·U·[®] COMPACT is a simple system based in a special U-dat Keypad that is able to control a maximum of 8 dispensing points.

The Keypad includes a 7" colour screen and the simplified software included provides workshops with:

- Full control of bulk stored fluid usage.
- Inventory control using declining balance method. NEX·U·[®] COMPACT will give a warning signal once a certain inventory is reached, and restricts access to those outlets that have run out of inventory.
- Ability to generate full reports in CSV format that can provide useful management information.
- Does not support U-Link oil dispensing meter or U-vision⁺.

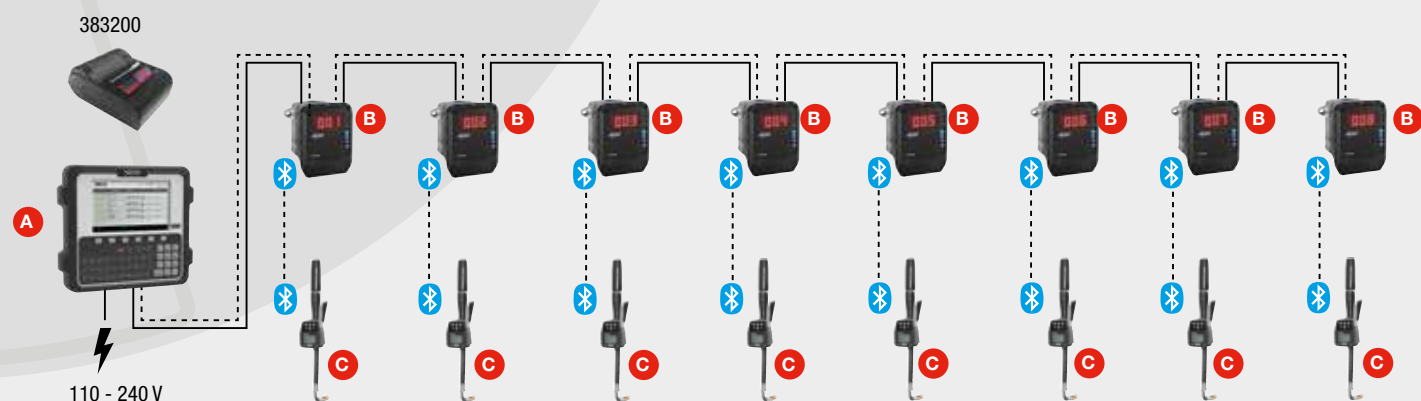


NEX·U·[®] COMPACT can work with any NEX·U·[®] fluid meter: U·valve; U·meter or U·meter⁺ with solenoid valve and filter. A U·vision hand held display can be connected to each U·valve or U·meter⁺.

NEX·U·[®] COMPACT has 64 GB storage capacity that provides virtually an unlimited capacity for storing transactions. NEX·U·[®] can be configured from a computer connected to the same Wi-Fi network as the NEX·U·[®].

New Wi-Fi[®] functionalities.

Part No.	Description
383 001	NEX·U· [®] COMPACT 75. With a 75 W transformer for opening up to 2 solenoid valves.
383 013	NEX·U· [®] COMPACT 320. With a 320 W transformer for opening up to 8 solenoid valves.



NEX·U·[®] COMPACT keypad **A** can control 8 dispensing points (model with 320 W transformer) or 2 dispense point (model with 75 W transformer). Each dispensing point **B** can include a U·valve, a U·meter or U·meter⁺ with solenoid valve combination.

A U·vision hand held display **C** can be connected to each fluid outlet using Bluetooth[®] communications.

It is possible to include a Bluetooth printer to provide a ticket for the transactions.

NEX·U.®

ACCESSORIES

TANK MONITORING ACCESSORIES

Part No.	Description
382 120	Tank level pressure gauge. Allows real-time monitoring of the volume in a tank. Maximum tank height: 4 m (11,5') taller tanks by special order

Part No.	Description
382 201	Float switch digital level gauge. Detects minimum, intermediate or maximum volume in a tank. Does not allow real-time monitoring. Adjustable height, includes 5 m (16,4') cable

Part No.	Description
382 005	Remote flash and acoustic alarm

CABLE

3082A 15/18AWG COMMUNICATION AND POWER CAN BUS CABLE

Part No.	Description
381 950	CAN BUS communication cable, sold in 1 m (3') increments
383 913	Cable connectors kit
381 908	In/out electrical connectors. For use with U-meter, U-meter+.

SOLENOID VALVES FOR COMPRESSED AIR - PUMP CONTROL

Part No.	Application and wetted materials	Connection threads	Voltage	Type	Max. Working pressure
389 016	Compressed air. Brass and NBR	3/8" (F)	24 V AC	N.C.*	10 bar
389 013	Compressed air. Brass and NBR	1/2" (F)	24 V AC	N.C.*	10 bar

* N.C.= Normally closed. / N.O.= Normally open.

Part No.	Description
381 957	Jumper cable. 0,5 m cable with prewired connectors 381 908 for connecting adjacent elements with a CAN BUS cable.
383 957	Jumper cable. 1 m cable with prewired connectors 381 908 for connecting adjacent elements with a CAN BUS cable.

BLUETOOTH PRINTER

Part No.	Description
383 200	Optional printer for use with NEX·U.® COMPACT, and NEX·U.® U-dat connected via Bluetooth® to the U-dat.

BAR CODE READER

Part No.	Description
383 901	Bar code laser reader. Reads any QR code. For use with a U-dat, U-dat Power+ and U-dat for NEX·U.® mobile and compact systems.

U-VALVE BRACKETS

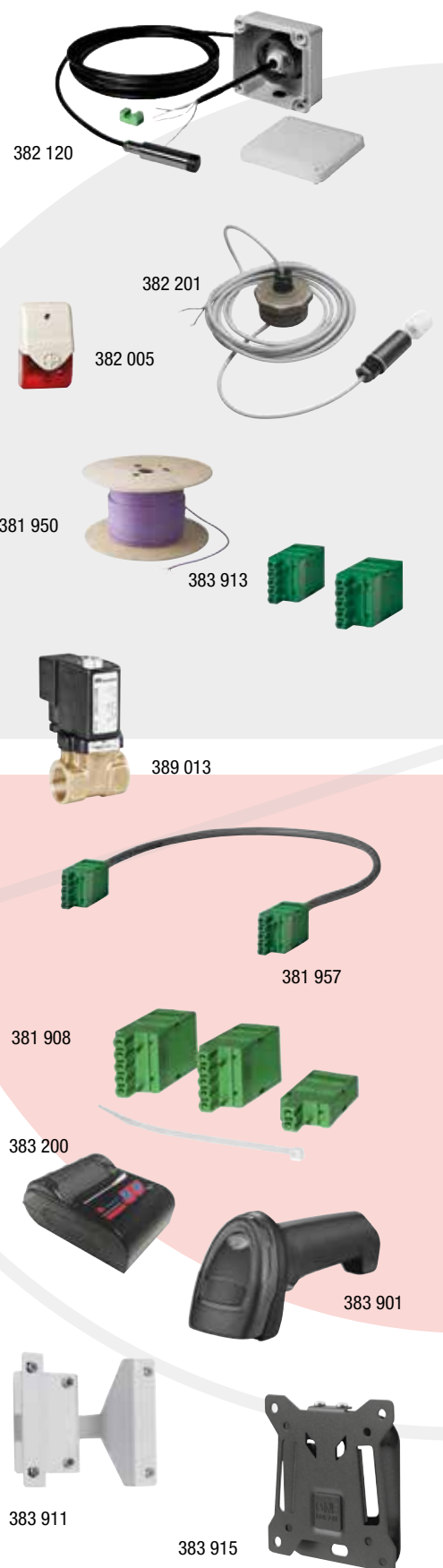
Part No.	Description
383 911	Allows fixing up to 6 U-valve on top of a hose reel stand (360 160).

KEYPAD BRACKETS

Part No.	Description
383 915	Universal VESA100 bracket.

POWER CABLES

Part No.	Description
953 001	Power cable U-dat C13 214 EU
953 006	Power cable U-power C13 EU 2M



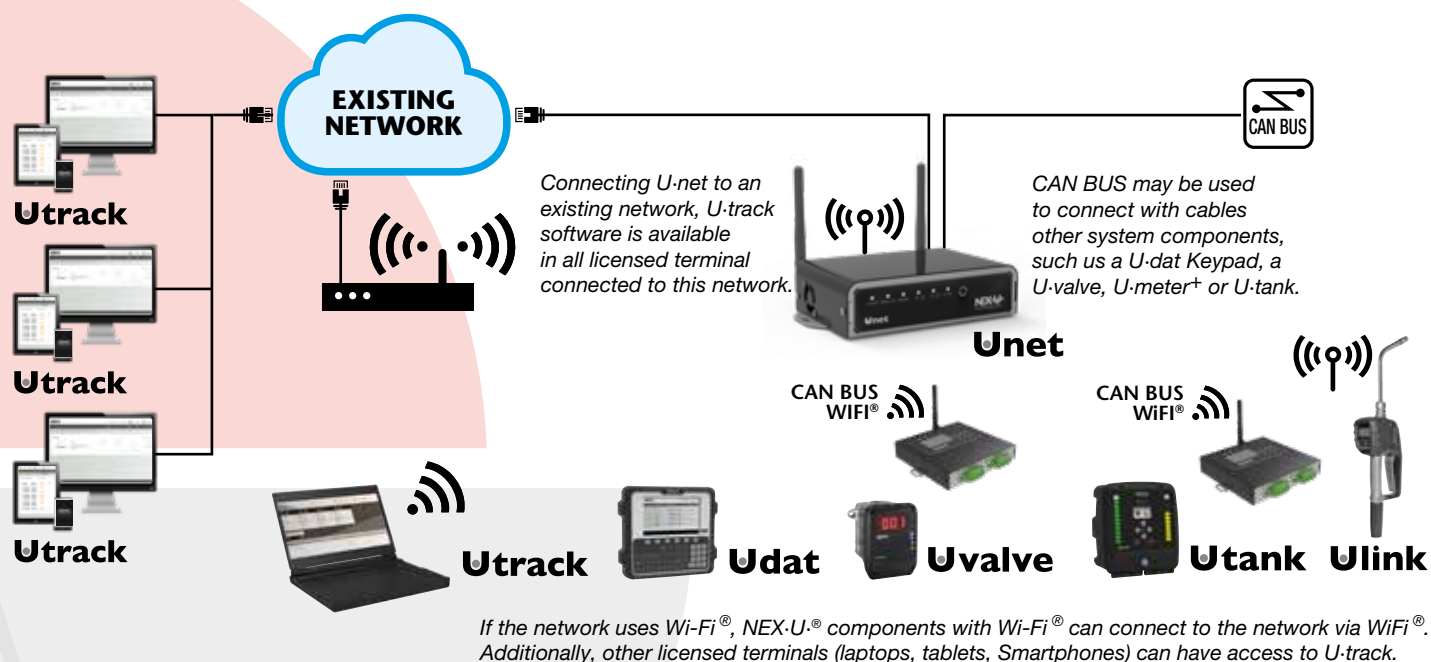
CREATING A WIRELESS NETWORK

There are two ways to create a wireless network:

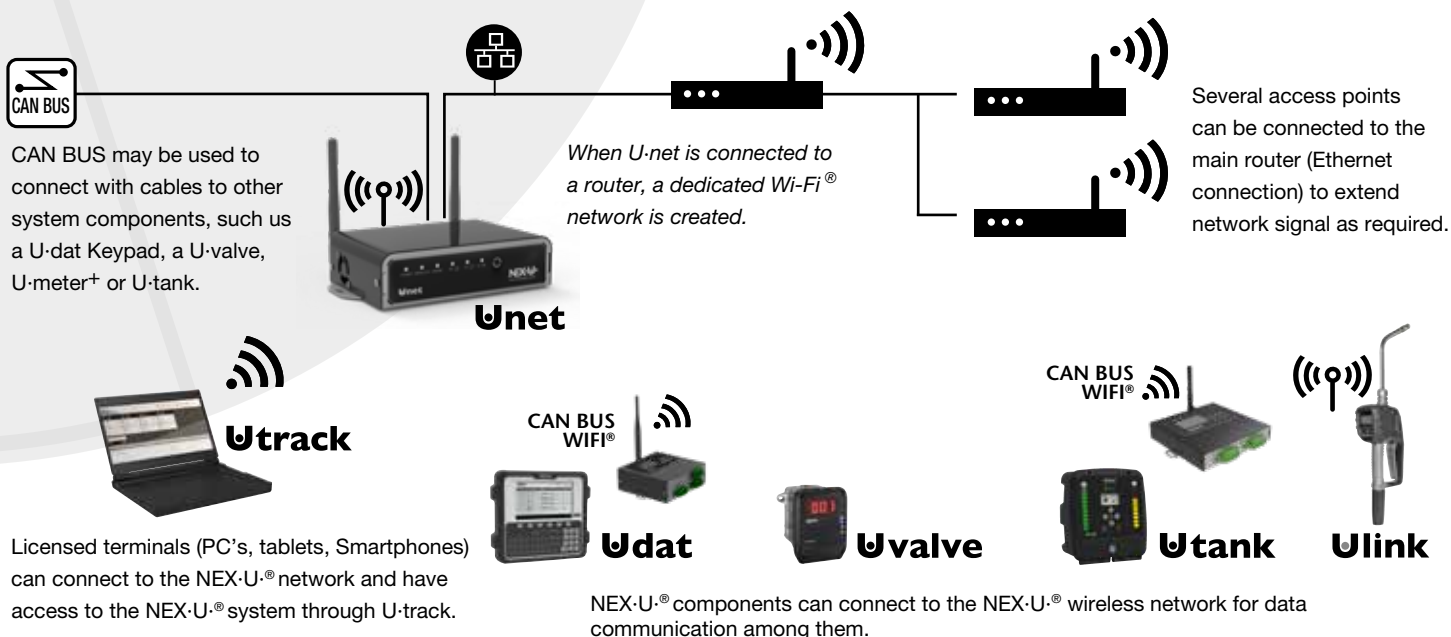
- Using an existing Wi-Fi® network. Requires access to existing wireless network credentials.
- Creating a dedicated Wi-Fi® network. New wireless credentials are created for this network.

In both cases IP addresses, network and default gateway, are required. The key component is U-net.

USING AN EXISTING NETWORK



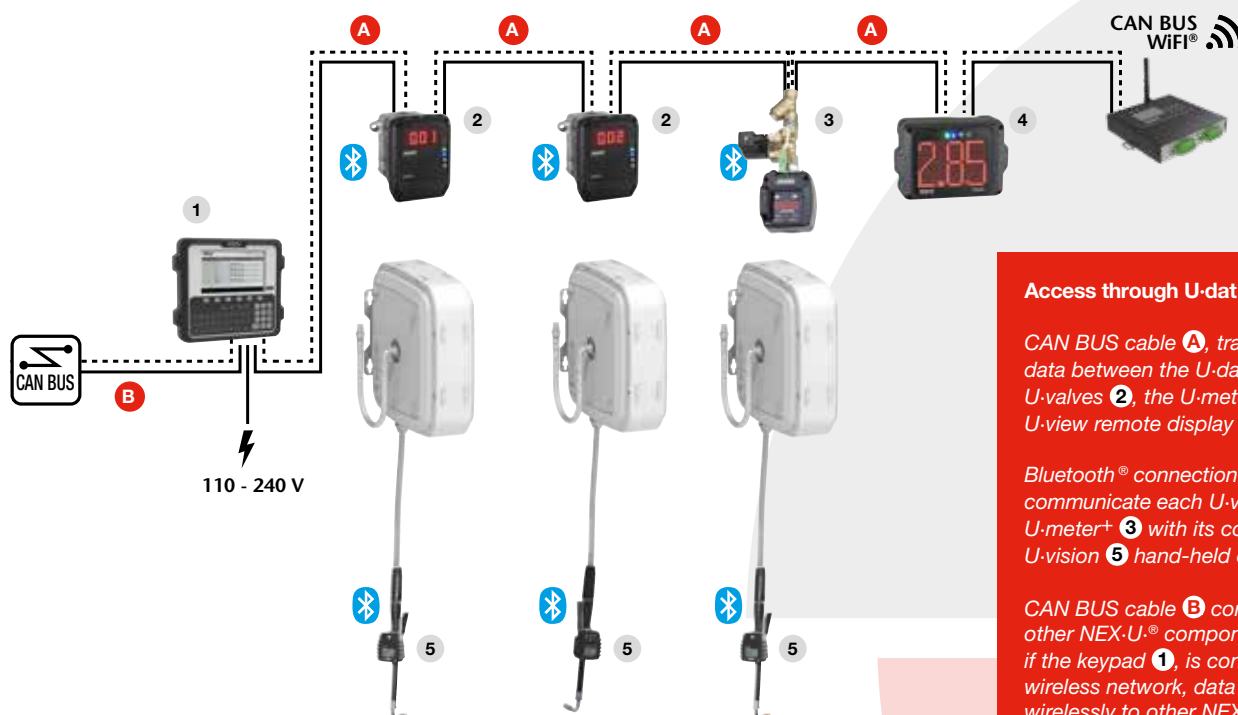
CREATING A NEW NETWORK



INSTALLATION EXAMPLES

NEX-U® provides maximum flexibility in the way the user interacts with the system, the most effective connection method and enhanced reporting capability.

ACCESS THROUGH U·dat



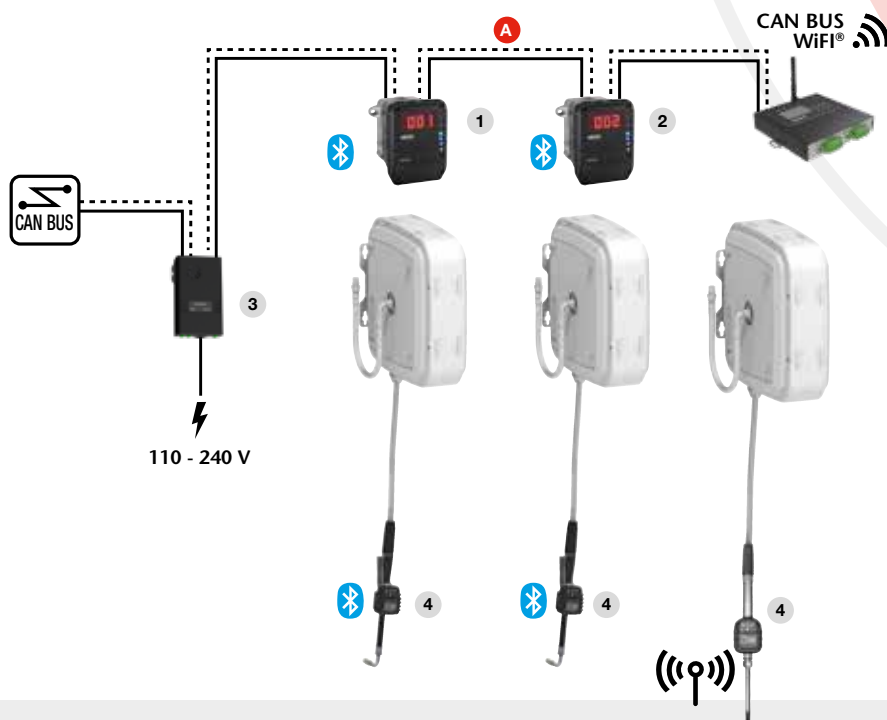
Access through U·dat

CAN BUS cable **A**, transmits power and data between the U-dat Keypad **1**, the U-valves **2**, the U-meter+ **3** and the U-view remote display **4**.

Bluetooth® connection is used to communicate each U-valve **2** and U-meter+ **3** with its corresponding U-vision **5** hand-held display.

CAN BUS cable **B** communicates with other NEX-U® components. Alternatively, if the keypad **1**, is connected to the wireless network, data can be transmitted wirelessly to other NEX-U® components.

ACCESS THROUGH U·vision+ or U·link



Access through U·vision+

Power and data are transmitted using CAN BUS cable **A** between the U-valve+ **1** and the other U-valve **2**. Power to energize the solenoid valves is supplied by the U-power **3**, connected to U-valve+ **1**.

Each U-valve+ **1** and U-valve **2** is connected to its corresponding U-vision+ **4**, hand-held display and systems access keypad.

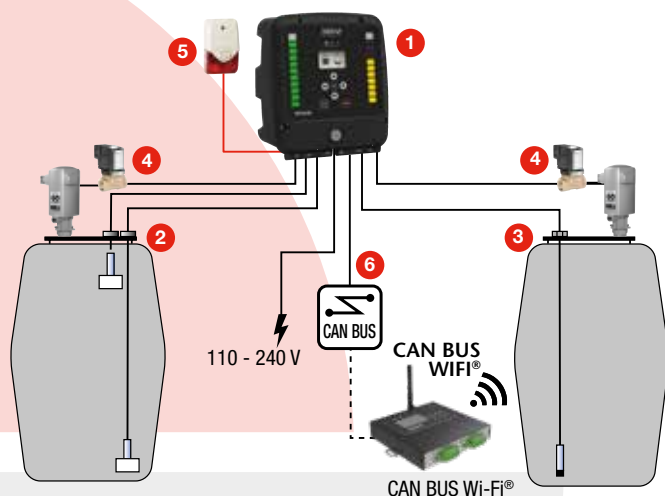
Wireless data transmission is done by U-valve+ **1**.

TANK MONITORING



CAN BUS FAST CONNECTION

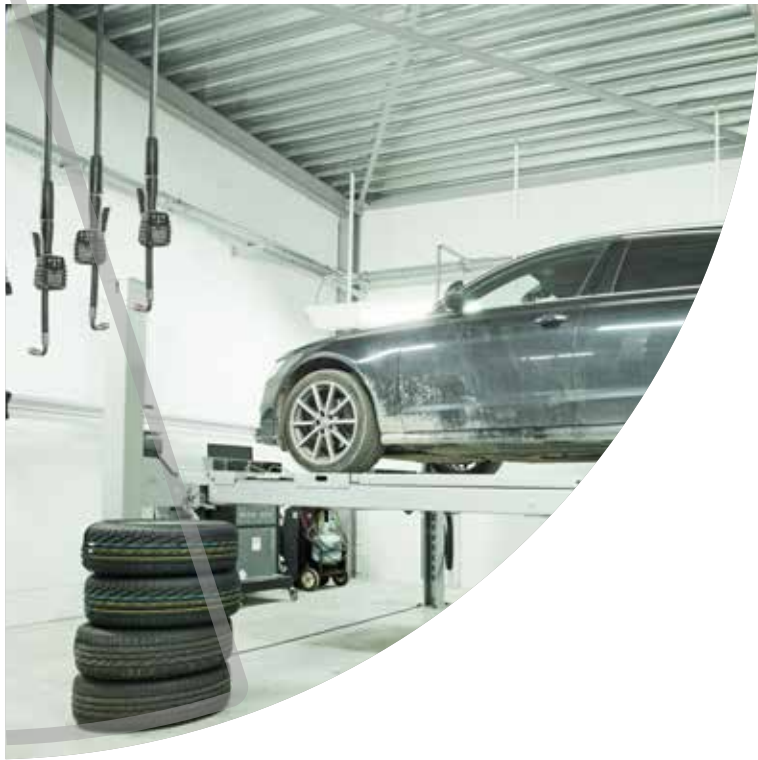
U-dat, U-valve, U-meter, U-count, U-tank and U-net use in/out CAN BUS fast connectors that make cabling easier, quicker and prevent disconnections.



U-tank 1 can monitor up to two tanks. Each tank can be fitted with low and high level sensors 2 or with a pressure gauge 3 for real-time control of the inventory in the tank. U-tank 1 can also control pump operation opening or closing an air solenoid valve 4 that prevents pump from running dry or air entering the oil distribution lines if there is no oil in the tanks.

U-tank 1 can also control a remote flash light or siren 5 to warn when any tank is empty. U-tank 1 can communicate with other NEX:U.® elements using Wi-Fi® or through CAN BUS 6 wired connection.





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