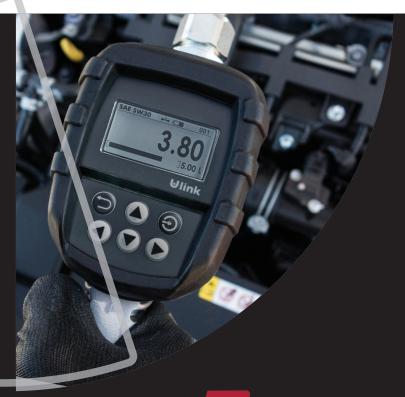




BOOST PRODUCTIVITY
INCREASE EFFICIENCY
REDUCE WASTE







# **BALCRANK**ELECTRONICS



environmental **CONCERN** 

BALCRANK began in 1906 and is one of the oldest manufacturers of automotive lubrication products. Since its beginning we have been providing our customers with the best products for the ever changing Automotive, Commercial and Industrial markets. Our products service automotive, quick lubes, dealerships, fleet and commercial vehicle centers. Our product line has expanded, encompassing the heavy-duty market, which includes: trucking, municipalities, railroad, marine, industrial, and mining.



# 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 warning 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<sup>°</sup> communication with a single U·valve, U·meter<sup>+</sup> or U·count

### **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-MFTFR**

- 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 BALCRANK 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-meter / U-count

### U·TANK MODULE

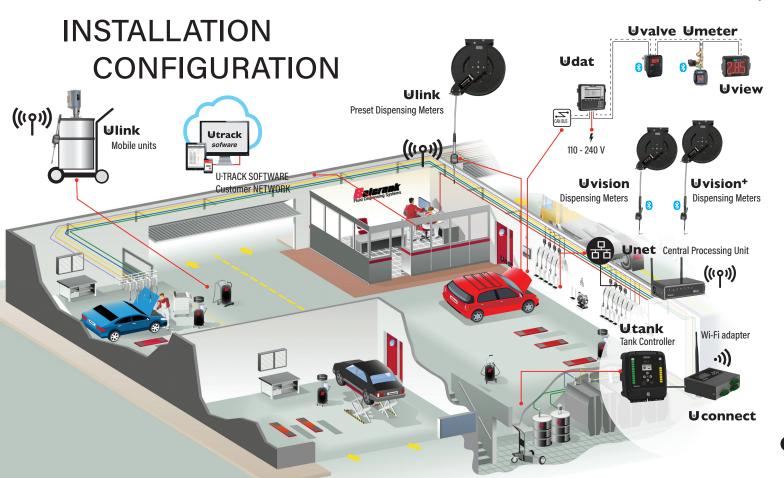
- · Monitors tank levels
- · Avoids tanks running empty
- · Avoids spillover
- · Level alerts

### **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



# **NEX-U-® BY BALCRANK:**

# Fluid management made easy

**NEX-U-** HYBRID TECHNOLOGY offers wired and wireless advantages for increased productivity

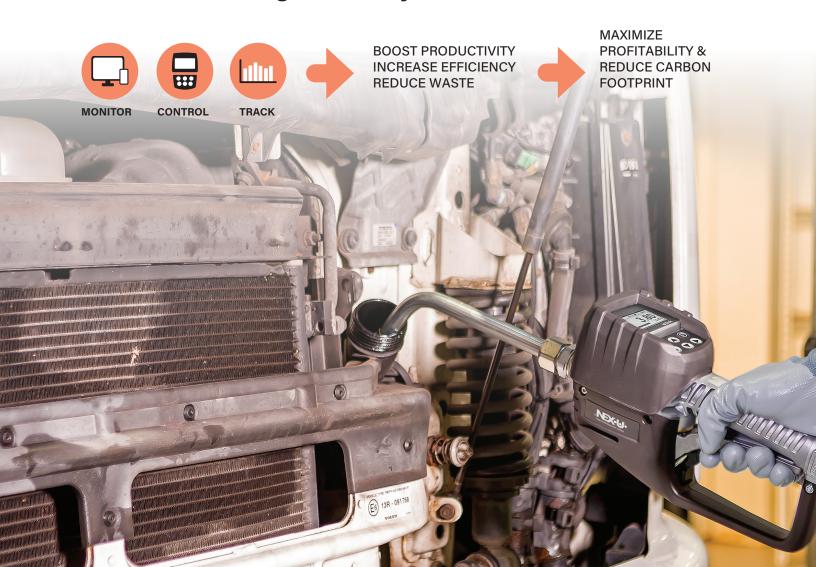
# **NEX-U-® WIRED INSTALLATION**

- 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 TRACK OF FLUIDS:** Benefits of using a fluid management system



# BENEFITS OF USING a Fluid Management System

## **MONITOR**

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

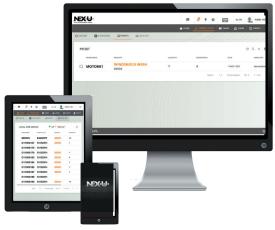
### CONTROL

- · 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

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



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

# 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

# **EASY OPERATION**

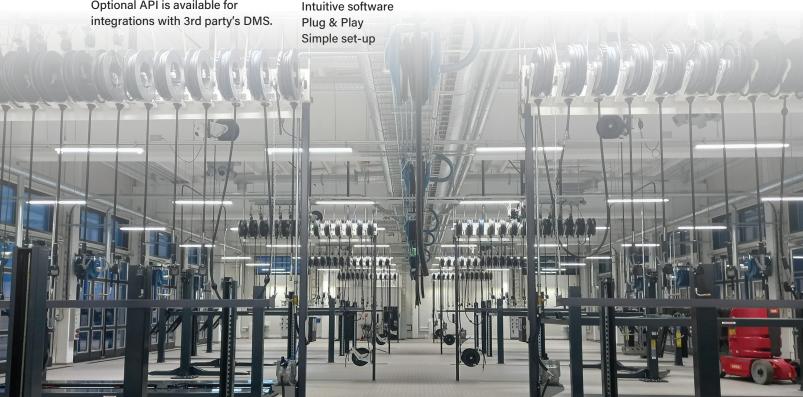
Quick and easy data entry Reduced in order preparation time Reduced downtime due to oil shortage

## SIMPLE

Intuitive software Plug & Play

# INCREASED PRODUCTIVITY

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

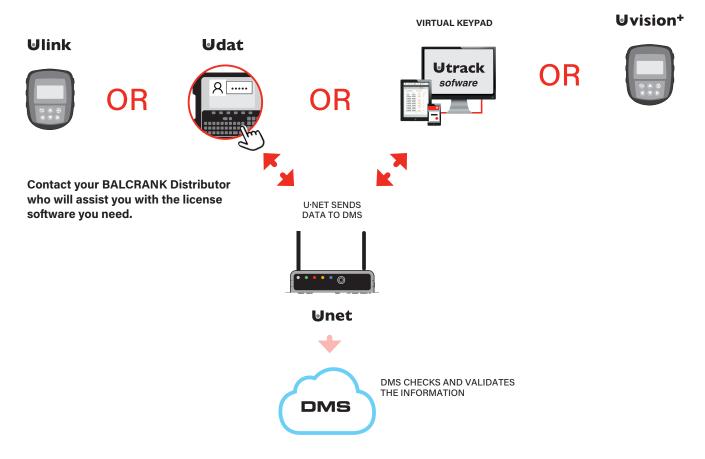


# **DMS - DEALER MANAGEMENT SYSTEM**

NEX-U-® can interface with most popular DMS on the market, offering an efficient bi-directional 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



### **BALCRANK INTERFACE**

A bi-directional communication is established through web service.

The user enters their 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**

111

### 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.

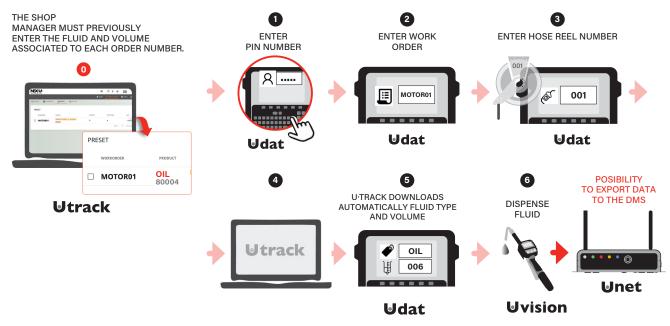




# PRESET MODE USING U.DAT°

A previous set up must be done in U-track before validation, as figure oshows.

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.



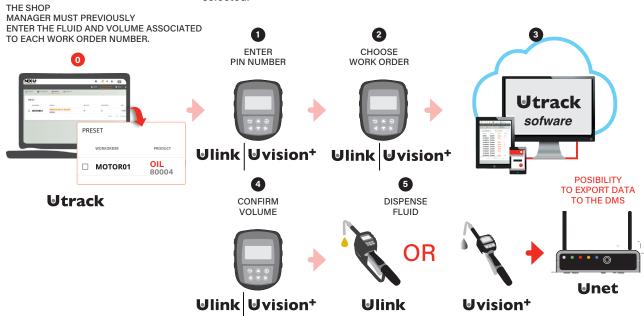
# **DISPENSING MODE OPTIONS**

2.2

# PRESET MODE USING U·LINK | U·VISION+

A previous set up must be done in U·track before validation, as figure o 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.



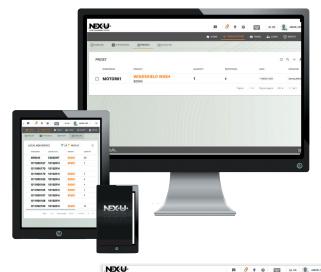
DMS - INTEGRATED MODE USING U·DAT, U·LINK, U·VISION+, VIRTUAL KEYPAD

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+ **ENTER WORK ORDER DISPENSE FLUID** ⊎link ⊌dat **EXPORT THE U·NET SENDS DATA CHECKS AND ⊎**valve **INFORMATION TO DMS** TO DMS **VALIDATES THE INFORMATION DMS DMS U**meter ⊌link ⊎net **⊌**count **⊎**vision VIRTUAL KEYPAD

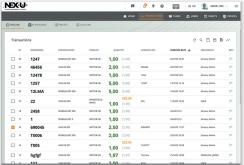
# U·TRACK: NEX·U·° SOFTWARE

# **Utrack**

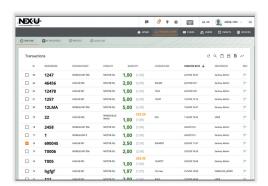


U-track system is a web based application accessible through any device (Laptop, PC, tablet or cell phone) connected to the same network as U-net.

A Virtual Keypad license converts any device connected to NEX·U·\* into a virtual system access keypad for authorizing fluid dispense.



U·track dashboard screen provides, in a glance, information on oil inventory and oil usage. Just click on any tank for more information.



Transactions can be followed and monitored real time, if required. Thanks to U-track, each PC terminal or tablet connected to the same network used by NEX-U-\* is converted into an access keypad to the NEX-U-\* system are available for multiple dispense locations (additional Virtual Keypad licenses are required).

U·track can also generate different reports that can be exported easily into CSV format.









# SYSTEM ACCESS AND CONTROL

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

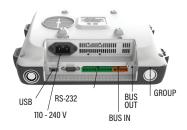


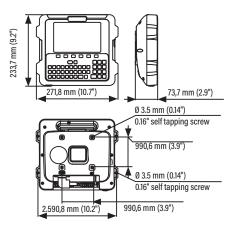
Udat Udat power<sup>†</sup>

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
3110-100	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 up to 8 solenoid valves, supports CAN BUS communications.
3110-104	U·dat Keypad Same as above, but with a 75 W transformer, to open up to 2 solenoid valves.
953001	Power cable C13EU2M ( 2 meters)



# 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 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 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

### ORDERING INFORMATION

Part No.	Description
3110-110	U·net central processing unit. Includes U·track software.
3110-133	Virtual Keypad license. Converts any terminal (PC, laptop, tablet or smart- phone) into a NEX·U·* access keypad. Contact BALCRANK for further information regarding the Virtual Keypad license.

# 3049 mm (15,1)

160 mm (6.3")

# 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 can have access to U-track. U-track can work using any 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 INCREASING 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.



# U-VISION<sup>+</sup>: 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<sup>+</sup> has a backlight display connected using Bluetooth<sup>\*</sup> with a U-valve, U-meter<sup>+</sup> or U-count and it displays the following parameters: U-vision+ is powered with 4 "AA" 1.5 V alkaline batteries.

Two possible dispensing modes: Standard and Preset



U-vision+ adapts to any BALCRANK 1/2" fluid control handle and transforms the handle into a handheld display and keypad for access to the NEX-U-° system.

ORDERING INFORMATION

Part No.	Description
3110-113	U·vision <sup>+</sup> hand-held keypad and display module. (Gun not included).



Uvision

SAE 10W30 💢 🗰 👊 001

1 Fluid dispensed type

6 Preset volume

Select job number

2 Solenoid valve open or closed 3 Battery life and Bluetooth' signal 4 Hose reel / fluid outlet number 5 Volume delivered and operation progress

3,80

# U·LINK: WIRELESS DISPENSING METER VALVE

Dispensing Meter Valve with wireless communication



**Control / Insert Scroll** 

**Ulink** 



## **TECHNICAL SPECIFICATIONS**

Motor oil, Hydraulic oil, Anti-freeze, Gear oil, Automatic transmission fluid		
1 to 30 l/min (0.25 to 7.5 gal/min)		
100 bar (1,425 psi)		
$\pm$ 0.5 % (Oil); $\pm$ 1% (Anti-freeze solutions)		
1/2" NPT (F)		
1/2" NPT (F)		
-10 °C to 50 °C (14 °F to 122 °F)		
4 x "AA" Alkaline 1.5V		
Up to 2000 mPa.s		
LCD		
Aluminium, AISI 316 Stainless Steel, Buna-N, Delrin, Brass, Zinc plate steel		
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
3110-125	U·link, no outlet
3110-153	U·link, with 60° rigid outlet and 1/4 turn non-drip tip
3110-154	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

**Uvalve** 

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.



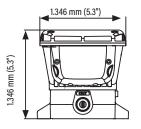
**Uconnect** 

U-valve can connect to the WiFi\* network using U-connect

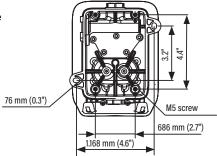
## PRODUCT SPECIFICATIONS

Applications	Lubricants, antifreeze solutions*	
Wetted parts	Aluminium, NBR, stainless steel, acetate	
Connection threads	1/2" NPT (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
3110-115	U·valve meter, solenoid valve and electronic module. Includes Bluetooth* communication for connecting to a U·vision or U·vision+.

# Umeter Umeter+

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.



U·meter\* includes Bluetooth\* for connecting to a U·vision or U·vision\*.

U-meter Part No.	3310-139	3110-122	3110-120	3110-118	
Wetted parts	Aluminium, NBR, stainless steel, acetal	Aluminium, NBR, stainless steel, acetal	PVC, Vectra <sup>°</sup> , stainless steel, Viton <sup>°</sup>	Stainless steel, Vectra*, Viton*	
Applications	Lubricants	Lubricants, diesel	DEF/AdBlue*, windshield wash and antifreeze solutions (low pressure)		
Connection threads	1/2" NPT (F)	3/4" NPT (F)	1/2" NPT (F)	1/2" NPT (F)	
Flow range	0.25-7.5 gal/min. (1 - 30 l/min)	2-21 gal/min. (8 - 80 l/min)	0.25-13 gal/min. (1 - 50 l/min)	0.25-13 gal/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%	
Max working pressure	1,450 psi (100 bar)	1,450 psi (100 bar)	435 psi (30 bar)	1,450 psi (100 bar)	
Communications	CAN BUS	CAN BUS	CAN BUS	CAN BUS	
U·meter+, models with Bluetooth Part No.	3110-117	3110-123	3110-121	3110-119	

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

THE 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	Solenoid valve	Y-strainer
3110-125	Lubricants, antifreeze solutions	U·meter 3110-139	3120-217	3120-211
3110-126	Lubricants, antifreeze solutions	U·meter+ 3110-117	3120-217	3120-211
3120-127	High delivery lubricants, antifreeze solutions	U·meter 3110-122	3120-218	3120-212
3110-128	High delivery lubricants, antifreeze solutions	U·meter+ 3110-123	3120-218	3120-212
3110-130	DEF / AdBlue°, windshield wash (low pressure)	U·meter 3110-120	3120-226	3120-211
3110-131	DEF / AdBlue*, windshield wash (low pressure)	U·meter+ 3110-121	3120-226	3120-211

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.



120-217	3120-218
120 211	OILO LIO

Part No	. Application and wetted materials	Connection threads	Voltage	Туре	Max. Working pressure
3120-21	7* Oil and antifreeze solutions. Brass and NBR	1/2" NPT (F)	24 V DC	N.C.	50 bar (125 bar)
3120-21	Coolant, diesel, water, oil. Brass and NBR	1/2" NPT (F) High Flow	24 V DC	N.C.	50 bar (125 bar)
3120-03	3 Compressed Air. Brass and NBR	3/8" NPT (F)	24 V DC	N.C.*	200 psi (13 bar)
3120-22	5 Compressed Air. Brass and NBR	1/2" NPT (F)	24 V DC	N.C.*	200 psi (13 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**

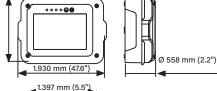
U-count allows the use of any pulse meter and solenoid valve in the NEX-U-\* system. U-count control module includes a high visibility LED display and the software required to communicate with the rest of the NEX-U-\* system components.

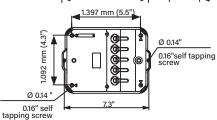
U-count support CAN BUS hard wired cabling to transmit power, required to open the solenoid valve, and data, for communication with other system components.

It can also communicate with a U-vision or U-vision+ using Bluetooth\*



**U-COUNT DIMENSIONS** 





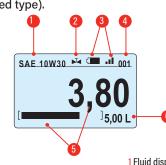
# **Uvision**

Hand-held display module to fit a BALCRANK 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.

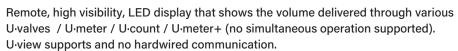
### ORDERING INFORMATION

Part No.	Description
3110-112	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.





U-view requires no 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
3110-134	U-view remote display module





# NEX-U-® CONNECTABILITY ACCESSORIES Upower Upower+

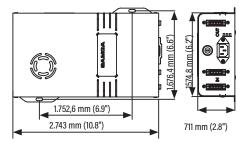




Power supply to dispensing units and other system components. U-power connects using CAN BUS cable to a U-valve, U-valve+, U-meter, U-meter+ or U-count whenever the power supplied by a U-dat Keypad is not present.

### **ORDERING INFORMATION**

Part No.	Description
3110-108	U-power. Power supply unit with a 75 W transformer for use with 2 solenoid valves.
3110-106	U-power <sup>+</sup> . Power supply unit with a 320 W transformer for use with 8 solenoid valves with 2 CAN BUS connectors.
3110-146	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).



# (ነግ) RF NETWORK EXTENDER

## ORDERING INFORMATION

Part No.	Description
3110-151	Expands the NEX·U·* Radio Frequency network coverage to reach remote areas.



# **Uconnect**CANBUS TO Wi-Fi CONVERTER

RDERING INFORMATION

Part No.	Description
3110-145	U-conect 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.



3110-145

# U-TANK: TANK LEVEL MONITOR MODULE AND PUMP CONTROLLER

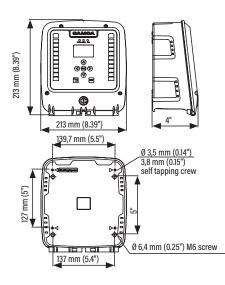


# **Tank Monitoring**

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.

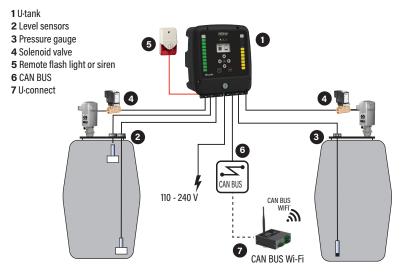
U-tank communicates with other NEX-Ucomponents using CAN BUS wired
connection or WiFi\* wireless connection
(requires U-connect).

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 overfill.
- 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.



### ORDERING INFORMATION

Part No.	Description			
3110-105	U-tank tank monitoring module. Can control up to two tanks. Supports CAN BUS communications. 110 - 240 V			

<sup>(1)</sup>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.

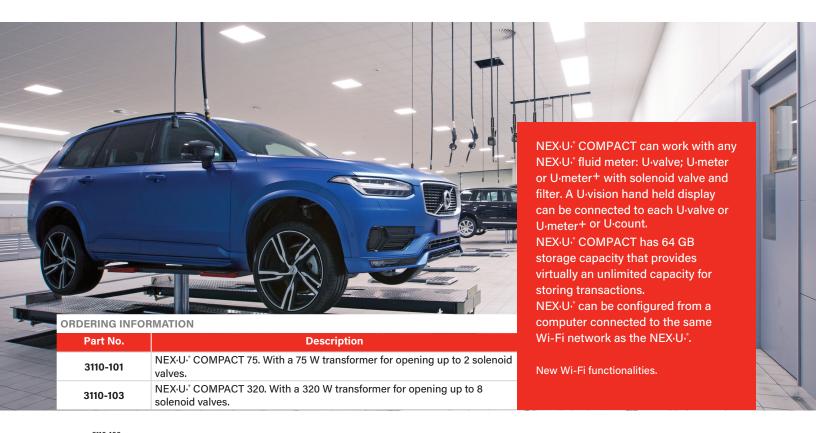


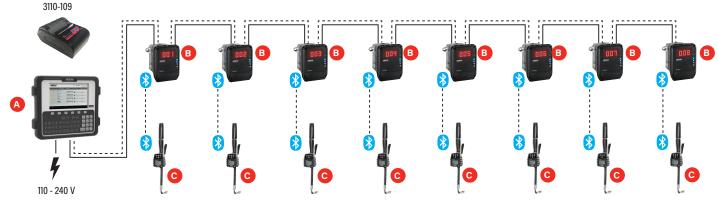
# **NEX-U-® COMPACT**

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" color 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<sup>+</sup>.





NEX-U. COMPACT keypad 🙆 can control up to 8 dispensing points (model with 320 W transformer) or up to 2 dispense point (model with 75 W transformer). Each dispensing point 😉 can include a U-valve, a U-meter or U-meter+ with solenoid valve combination.

A U-vision hand held display 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			
3120-084	Tank level pressure gauge. Allows real-time monitoring of the volume in a tank. Maximum tank height: 4 m (13.1') taller tanks by special order			
Part No.	Description			
3120-079	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			
3120-029	Remote flash and acoustic alarm			





3120-084

3120-029



### CABLE

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

Part No.	Description	3130-110			
3130-110	NEX-U/100' CAN BUS Communication Cable	3130-500 3130-100			
3130-500	NEX-U/500' CAN BUS Communication Cable				
3130-100	NEX-U/1,000' CAN BUS Communication Cable				
3130-136	Cable connectors kit				
3110-141	In/out electrical connectors. For use with U·meter, U·meter+	3110-143			
3110-143	Jumper cable 1.5' cable with prewired connectors 3130-136 for connecting adjacent elements with a CAN BUS cable	_ 3110-143			



#### SOLENOID VALVES FOR COMPRESSED AIR - PUMP CONTROL

Part No.	Application and wetted materials	Connection threads		Туре	Max. Working pressure
3120-033	Compressed Air. Brass and NBR	3/8" NPT (F)	24 V DC	N.C.*	200 psi (13 bar)
3120-225	Compressed Air. Brass and NBR	1/2" NPT (F)	24 V DC	N.C.*	200 psi (13 bar)

3120-033 3120-225



# **BLUETOOTH PRINTER**

Part No.	Description
3110-109	Optional printer for use with NEX·U·* COMPACT, and NEX·U·* U·dat connected via Bluetooth* to the U·dat or Nex·U· compact



## BAR CODE READER

DAII CODE IILADE				
Part No.	Description			
3110-140	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	3110-140		



# U-VALVE BRACKETS

Part No.	Description
2230-040	Allows fixing up to 6 U·valve on top of a hose reel stand (360 160)



<sup>\*</sup> N.C.= Normally closed. / N.O.= Normally open.

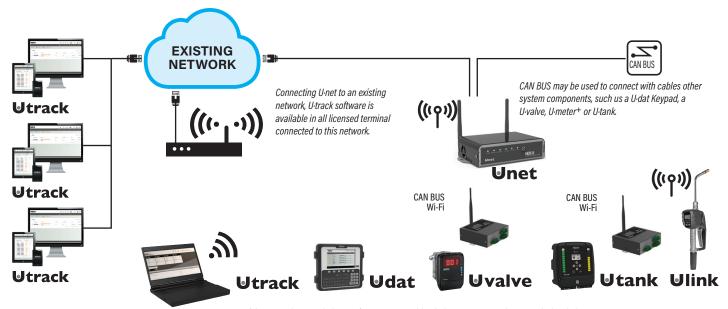
# CREATING A WIRELESS NETWORK

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.

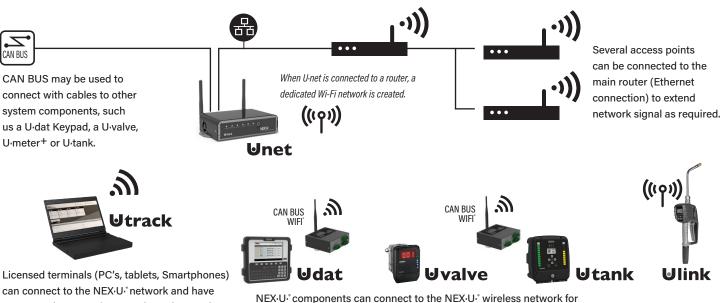
In both cases IP addresses, network and default gateway, are required. The key component is U·net.

# **USING AN EXISTING NETWORK**



If the network uses Wi-Fi, NEX-U<sup>\*</sup> components with Wi-Fi can connect to the network via Wi-Fi. Additionally, other licensed terminals (laptops, tablets, Smartphones) can have access to U-track.

# **CREATING A NEW NETWORK**



access to the NEX-U-\* system through U-track.

data communication among them.

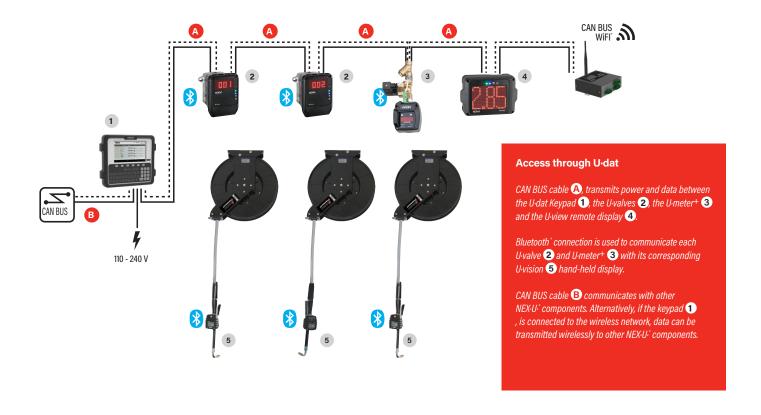




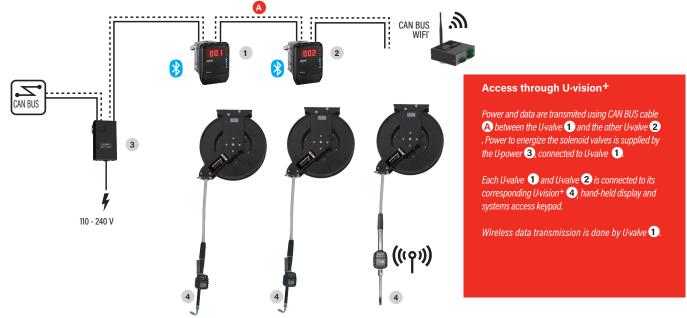
# INSTALLATION EXAMPLES

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 Uvision+ or Ullink

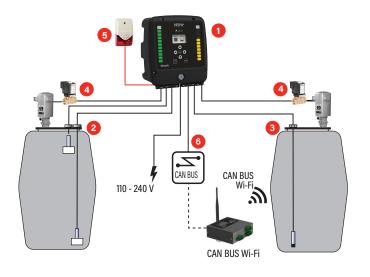


# TANK MONITORING



# 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.



Utank 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. Utank 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.

Utank 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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