

XP line
small size, great power



XP61 Silo weight controller

Main feature

The main feature of the XP61 is the color display screen (3.5") with 320x240 dots resolution with led backlighting. XP61 is made in DIN 96x96 format and the module dimensions are 96x96mm.



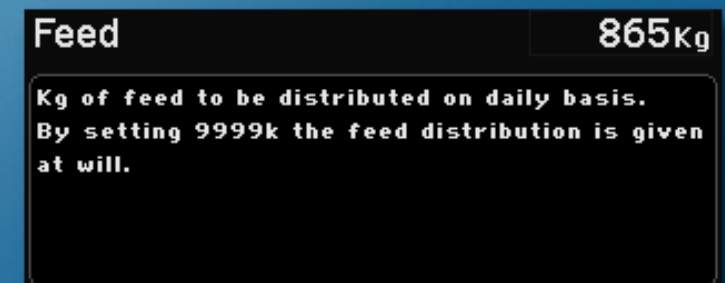
The user interface is easy and friendly. The easy touch screen system gives both the typical "easy to use" approach of a touch screen system and the strength and mechanical protection of a polycarbonate IP55 keyboard.

At every screen the function keys display a different graphic making the program very user friendly.

The user can select the display language: all the wordings, acronyms and "help" texts for programming assistance will be displayed in the chosen language.



Each programming step has its own help screen so the program has a "built in" instruction manual.



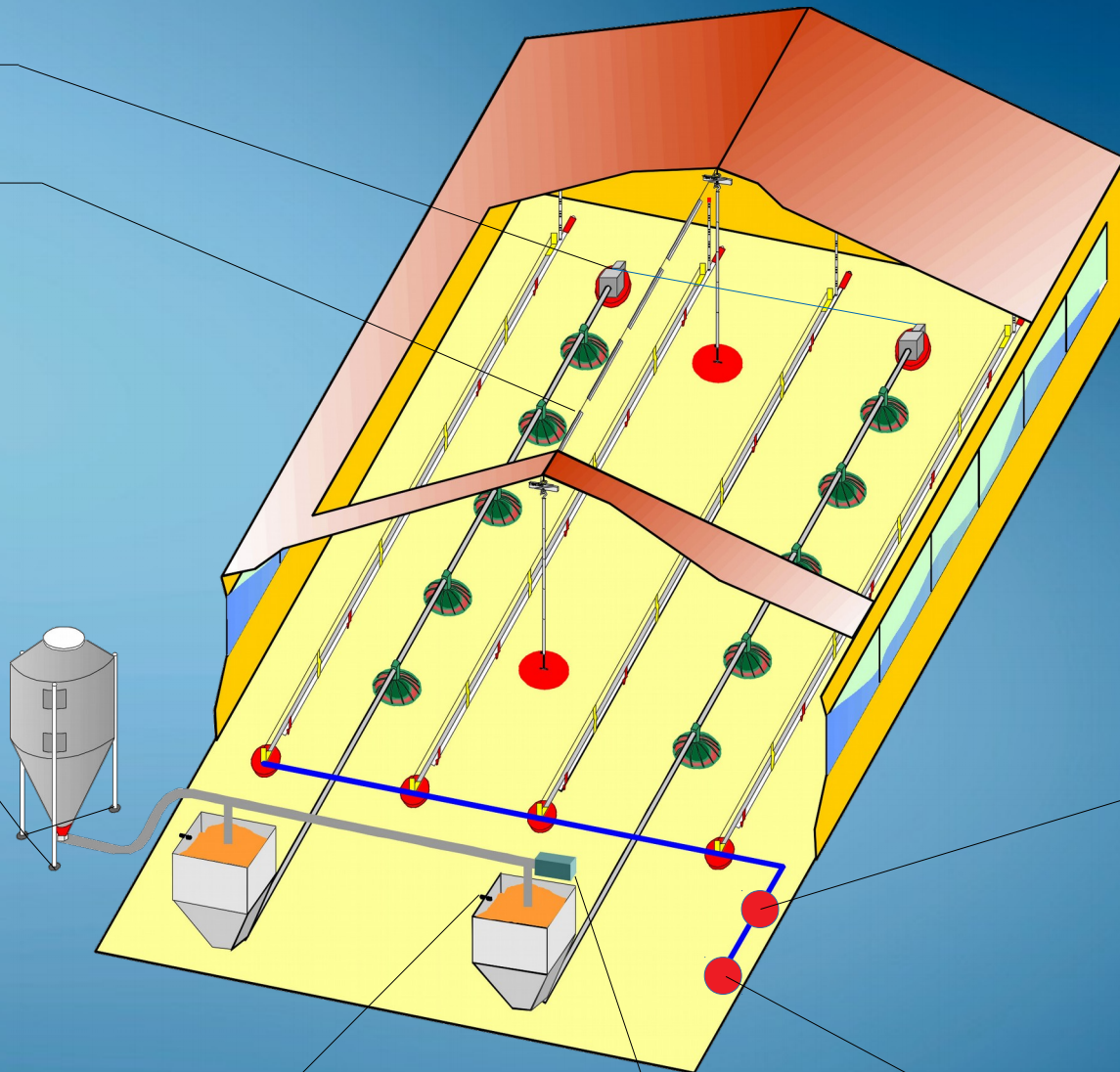
Manages feeding control

FEEDING LINES

LIGHTS
Lights can be controlled by On/Off output.

FEED MANAGEMENT
Detection and recording of feed consumption done by load cells.
Automatic detection of silo unloading.

Current silo weight **5682kg**
Silo loading in progress
Loaded feed **917kg**



STARTING TIMES
It is possible to program up to a maximum of 8 periods for each single function.

01-03-18 12:00:00

Meal times
Light times
Water times
Free timer times

Exit Move Move Select

WATER METER
Water distribution is programmable at preset times and consumption is recorded by the water meter. Water level is kept under constant control to prevent problems.

1528Lt Dist. water
1.76 Water/Feed

ARCHIVES
Daily records (500 days) of:
- Feed consumption
- Water consumption
- Water/feed ratio

ARCHIVE 01-03-18 12:00:00

At will
Progr. feed
864kg Dist. feed
41 Archive day
1528Lt Dist. water
26-02-18 Archive date
1.76 Water/Feed

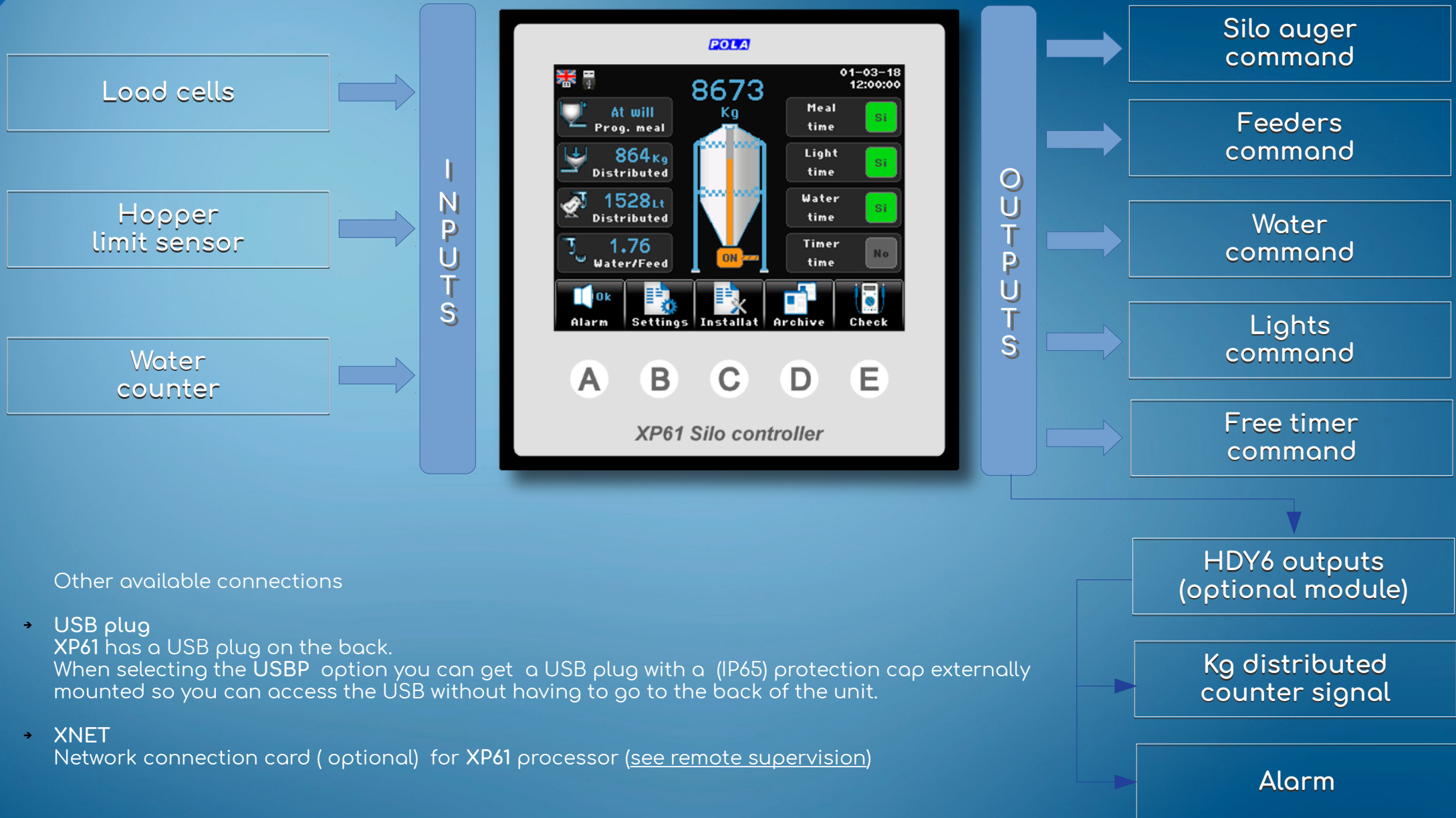
Exit Day (-) Day (+)

HOPPER LIMIT SENSOR

WATER VALVE

SILo AUGER

Inputs and outputs



Other available connections

- **USB plug**
XP61 has a USB plug on the back. When selecting the USBP option you can get a USB plug with a (IP65) protection cap externally mounted so you can access the USB without having to go to the back of the unit.
- **XNET**
Network connection card (optional) for XP61 processor ([see remote supervision](#))

Sample screenshots



Viewing screens



Viewing operating condition



Viewing silo load

PROGRAM STATE

Feed distribution	Yes
Number meal in progress	1
Meal hours	Yes
Stop for minimum feed flow	No
Silo auger delay	No
Waiting restart after silo upload	No
Silo upload in progress	No
Hopper level sensor full	Si

Viewing program state



Viewing yesterday/today meal comparison



Settings screens



Settings selection



Starting times selection



Schedule meal times (up to 8 programmable periods)



Feed to distribute setting



Archive screen



Archive to display selection

ALARMS ARCHIVE

Alarm type	Date	Hour
Meal unfinished	15-01-18	10:54
Low stock	15-01-18	09:23
Silo download minimum	14-01-18	20:54
Silo download maximum	14-01-18	16:43
Silo upload signal	11-01-18	05:32
Water minimum	11-01-18	03:12
Water maximum	09-01-18	05:32
Silo upload signal	11-01-18	01:32

Alarms archive

EVENTS ARCHIVE

Event type	Date	Hour
Power restored	15-01-18	10:54
Power failure	15-01-18	09:23
Manual test entry	14-01-18	20:54
Power restored	14-01-18	16:43
Power failure	11-01-18	05:32
Update procedure	11-01-18	03:12
Manual test entry	09-01-18	05:32
Power failure	11-01-18	01:32

Events archive



Feeding archive

SILO UPLOAD ARCHIVE

Silo upload done	Date	Hour
1206 Kg	15-01-18	10:54
3561 Kg	15-01-18	09:23
4217 Kg	14-01-18	20:54
2172 Kg	14-01-18	16:43
1491 Kg	11-01-18	05:32
1217 Kg	11-01-18	03:12
6123 Kg	09-01-18	05:32
3744 Kg	11-01-18	01:32

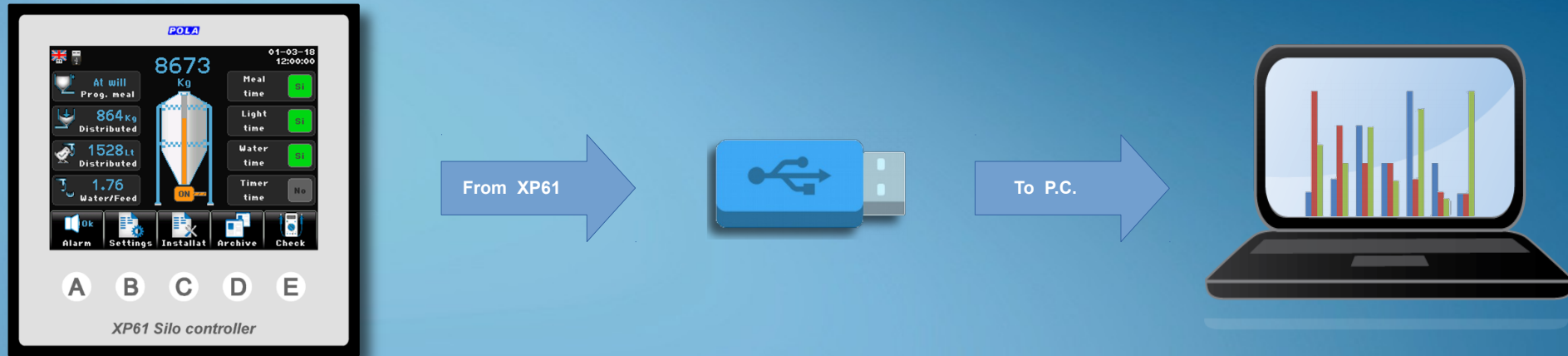
Silo upload archive

CYCLE TOTAL

Feeding	
Feed total	831 QH
Water total	1555 QH
Water/Feed	1.87
Silo	
Total upload	833 QH

Cycle total archive

Data transfer



The communication with the outside world is performed by USB key

→ **Export archives**

XP61 save in the USB memory a file containing all the day by day recorded data of the cycle.

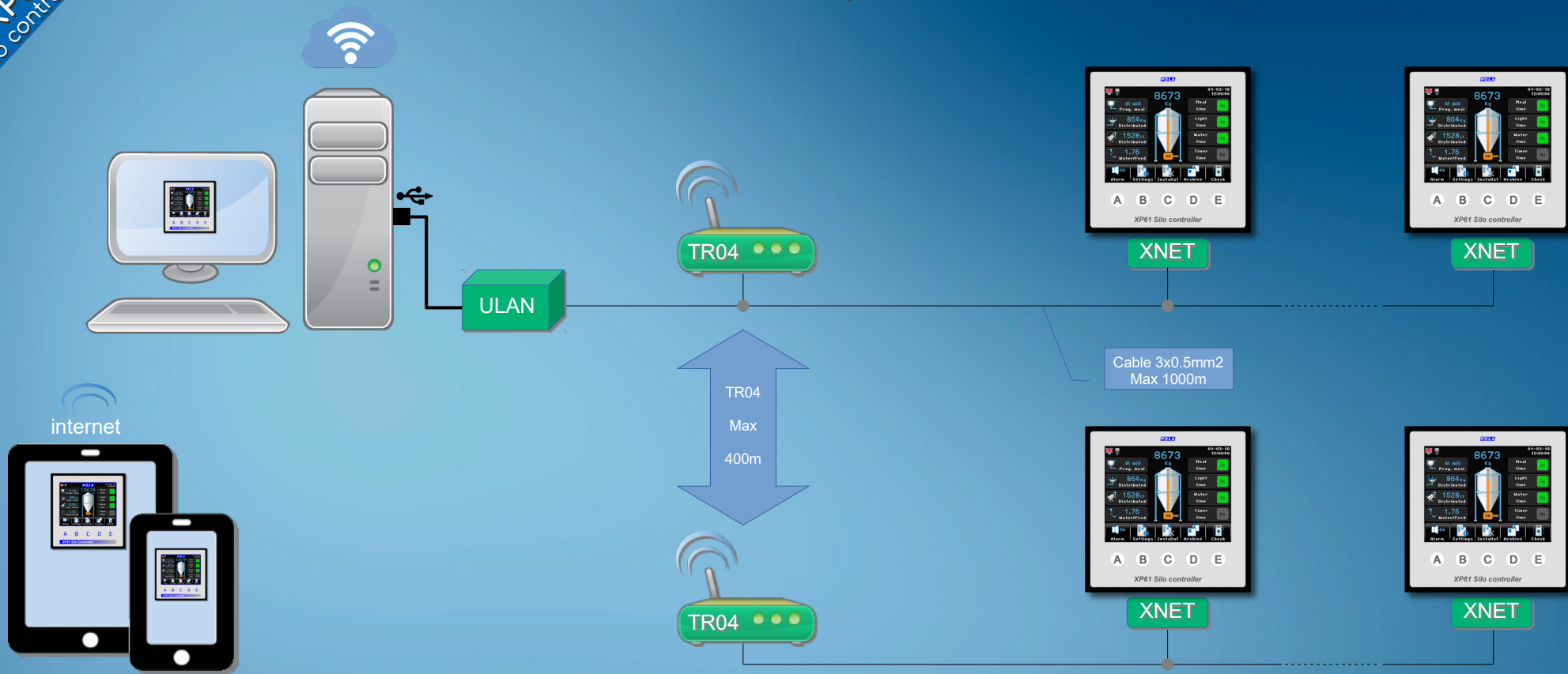
Connecting the USB key to a PC and by using the XP61 Dialogue software you can browse the recorded data in grid or graph formats.

→ **Importing / saving the setting**

You can save a file with all back-up infos on a USB file.

Saved settings can be uploaded on XP61 anytime by a user friendly procedure.

Remote supervision



Remote supervision of XP61 processors grants the full management of system by PC.

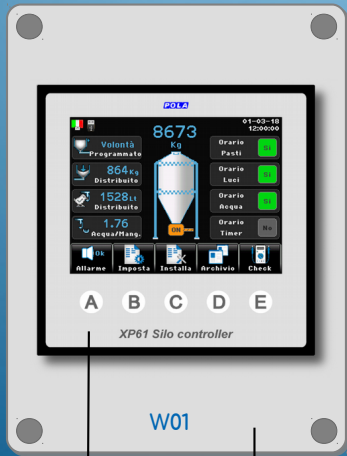
The XP61 Net Pro supervision software enables the full remote control of network connected processors. ULAN peripheral is connected to PC through a USB connection. HP61 – ULAN connection is done by a simple 3 wires cable. In all cases where ULAN cannot be cabled to XP61 we can supply TR04 radio-modems with a reach of 400 mt.

Components for creating a supervision system:

- ULAN: Network server Pc (with USB connection)
- XNET: Network adapter card (one for each XP61)
- TR04: Radio-modem 485 (optional, to be used only when it is not possible to use the cable)

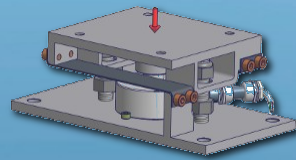
Available options

Model	Description
XP61	Silo weight controller (DIN96 panel mounting)
----- Options -----	
W01	IP55 box for wall mounting + gasket + transparent cover
LCG	Cell junction module
USBP	USB IP65 external plug (to be mounted externally, for access to the USB without the need to access the back of the XP61)
CWD	Water counter
HDY6	Relay outputs extension
XNET	Network nodal point
ULAN	Network server Pc (with USB connection)
TR04	Radio-modem 485 (IP55 junction box with power supply 230/12v)
CN5+U10	Load cell 5000Kg IP68, compression type, stainless steel complete with cable and sheath from 5 mt.



XP61

W01



CN5+U10



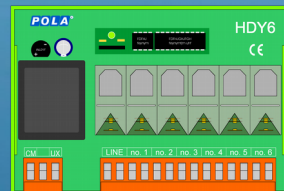
CWD



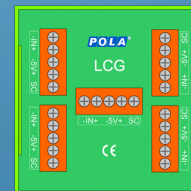
USBP



TR04



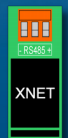
HDY6



LCG



ULAN



XNET

HP61 vs XP61 functions comparison



HP61		XP61
✓	Load cells input	✓
✓	Water meter input	✓
✗	Automatic silo load detection	✓
✗	Max feed download alarm	✓
✗	Max water download alarm	✓
✗	Daily archive management	✓
✗	Daily meals clock	✓
✗	Daily water clock	✓
✗	Daily light clock	✓
✗	Free daily timer clock	✓
✗	Daily archive of water and feed consumptions	✓
✓	Total cycle archive for water and feed consumptions	✓
✗	Archive export by USB key	✓
✓	PC connection	✓

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