XP61 brochure

XP line
small size, great power

POLA

8673 Kg

01-03-18
12:00:00

At will
Prog. meal

864 Kg
Distributed

1528 Lt
Distributed

1.76
Water/Feed

ON

Meal time — Si
Light time — Si
Water time — Si
Timer time — No

Ok Alarm | Settings | Installat | Archive | Check

A B C D E

XP61 Silo controller

XP61 Silo weight controller

POLA

XP61
silo controller

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 systems gives both the typical "easy to use" approach of a touch screen system and the strength and mechanical protection of a polycarbonate IP55 keyboard.
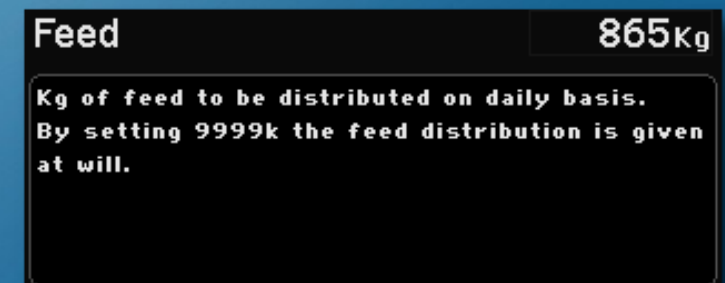
At every screen the function keys display a different graphic making the program very user friendly.

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.
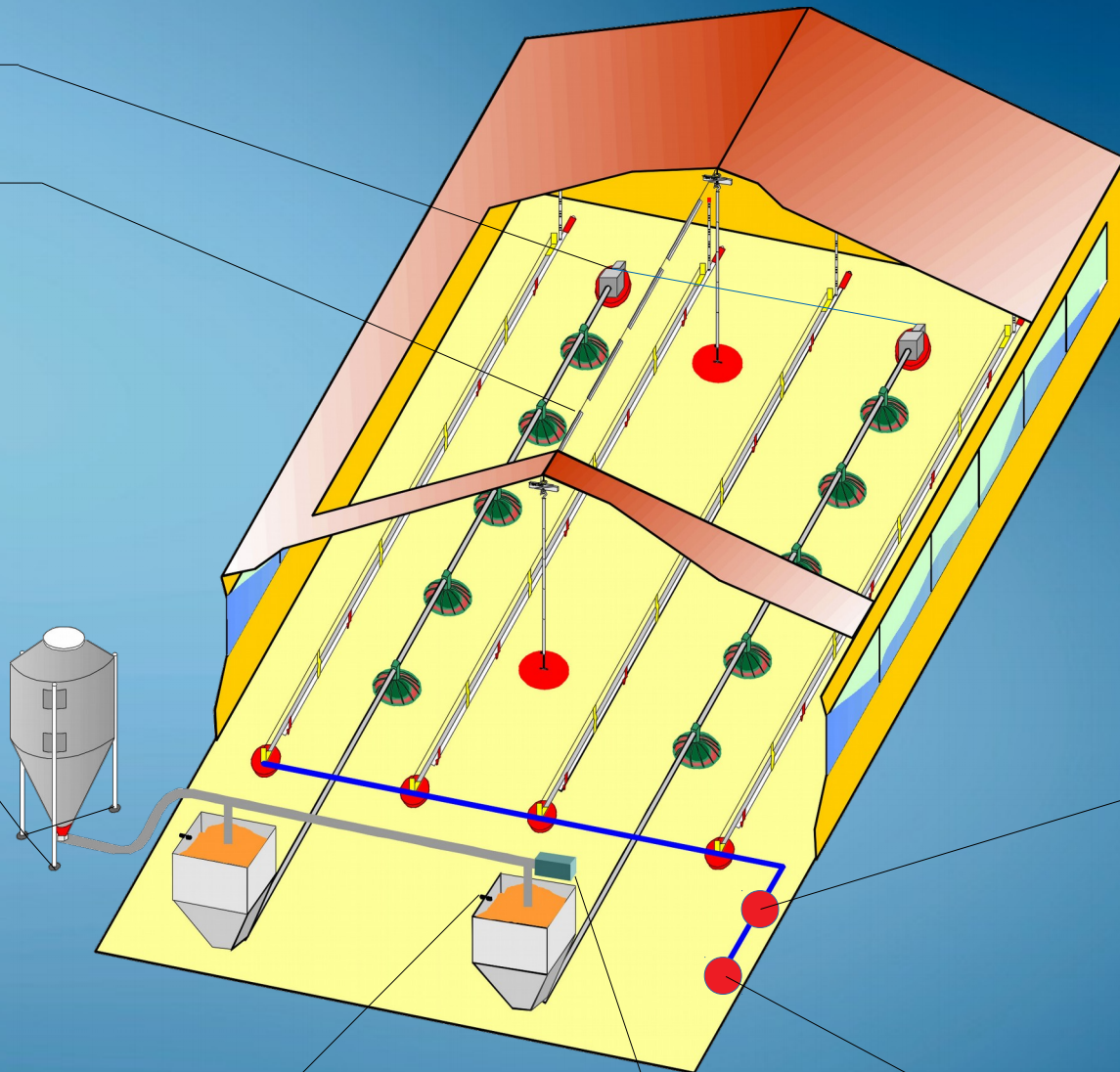
Manages feeding control

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 uploading.

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

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

STARTING TIMES 01-03-18 12:00:00
Meal times   00 02 04 06 08 10 12 14 16 18 20 22 24
Light times   00 02 04 06 08 10 12 14 16 18 20 22 24
Water times   00 02 04 06 08 10 12 14 16 18 20 22 24
Free timer times 00 02 04 06 08 10 12 14 16 18 20 22 24
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.

1528 Lt 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
864 Kg Dist. feed   **41** Archive day
1528 Lt Dist. water   **26-02-18** Archive date
1.76 Water/Feed
Exit   Day (-)   Day (+)

HOPPER LIMIT SENSOR

WATER VALVE

SILO AUGER

Inputs and outputs

INPUTS

- Load cells
- Hopper limit sensor
- Water counter

POLA

8673 Kg

At will Prog. meal
864 Kg Distributed
1528 Lt Distributed
1.76 Water/Feed

Meal time — Si
Light time — Si
Water time — Si
Timer time — No

ON

01-03-18
12:00:00

Ok Alarm | Settings | Installat | Archive | Check

A B C D E

XP61 Silo controller

OUTPUTS

- Silo auger command
- Feeders command
- Water command
- Lights command
- Free timer command
- HDY6 outputs (optional module)
- Kg distributed counter signal
- Alarm
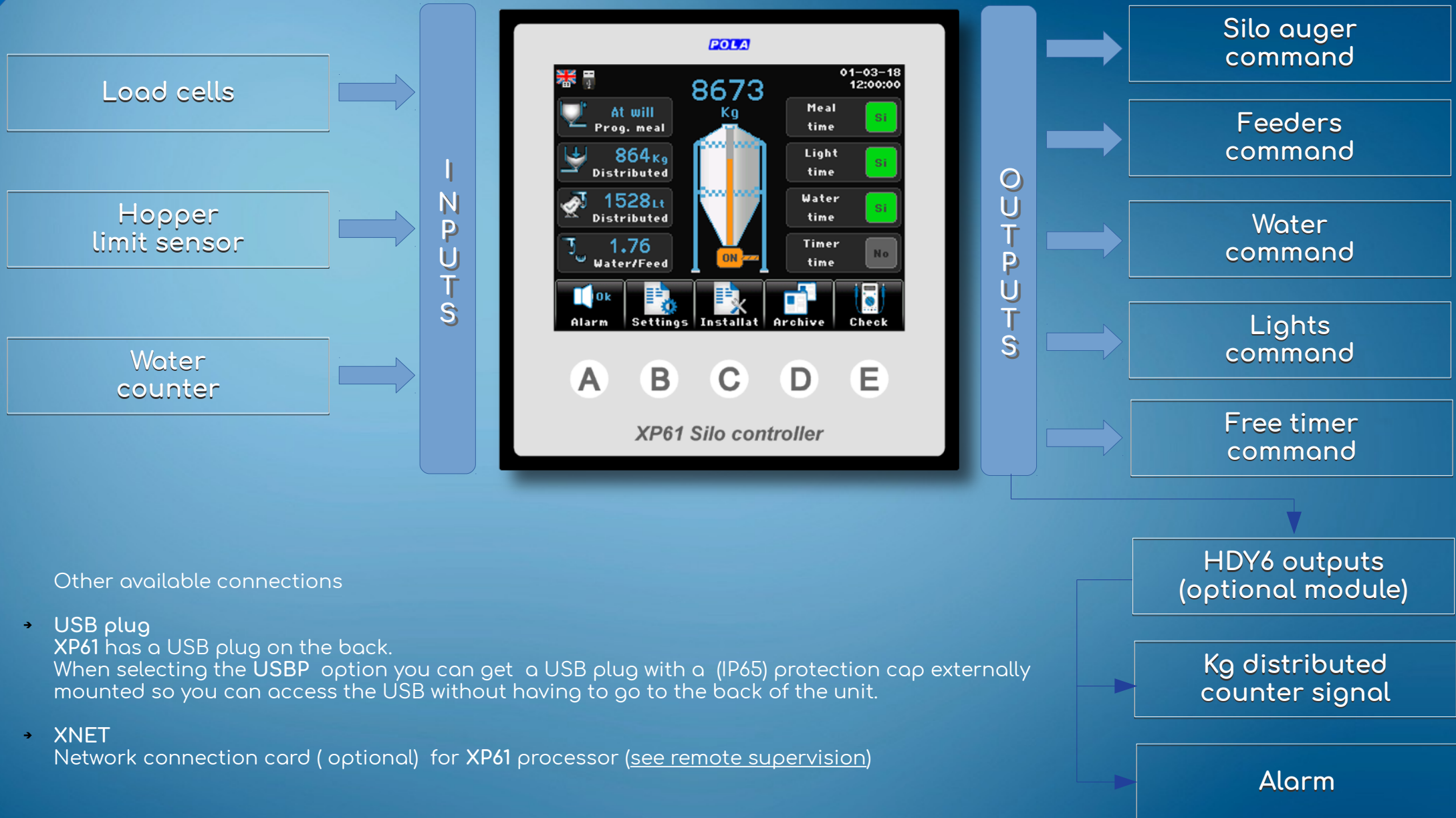
Other available connections

→ **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

Viewing program state

Viewing yesterday/today meal comparison

Viewing operating condition screen:
- 8673 Kg
- At will / Prog. meal
- 864 Kg Distributed
- 1528 Lt Distributed
- 1.76 Water/Feed
- Meal time: Si
- Light time: Si
- Water time: Si
- Timer time: No
- Alarm, Settings, Installat, Archive, Check

Viewing silo load screen:
- Current silo weight: 8673 Kg
- Silo loading in progress
- Loaded feed: 917 Kg
- Alarm, Settings, Installat, Archive, Check

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

MEAL YEST. / TODAY:
YESTERDAY / TODAY COMPARISON
% of distribution compared to yesterday values at same time
- +7% Yest./Today
- +6% Yest./Today

Settings screens

Settings selection

Starting times selection

Schedule meal times (up to 8 programmable periods)

Feed to distribute setting

SETTINGS:
- Starting times
- Feed
- Starting cycle
- Exit, Move, Move, Select

STARTING TIMES:
- Meal times
- Light times
- Water times
- Free timer times
- 00 02 04 06 08 10 12 14 16 18 20 22 24
- Exit, Move, Move, Select

MEAL TIMES:
	min:sec
Start hour 1	00:00
Stop hour 1	23:59
Start hour 2	00:00
Stop hour 2	00:00
- Exit, Move, Move, Select

FEED:
SETTING CHANGE PROCEDURE
- Feed: 865 Kg
- Kg of feed to be distributed on daily basis. By setting 9999k the feed distribution is given at will.
- Exit, Decrem, Increm, Enter

Archive screen

Archive to display selection

Alarms archive

Events archive

Feeding archive

ARCHIVES:
- Alarms
- Events
- Feeding
- Silo upload
- Exit, Move, Move, Select

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
- Exit, Page 1 of 8, Up page, Down page

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
- Exit, Page 1 of 8, Up page, Down page

ARCHIVE:
- At will / Progr. feed
- 864 Kg Dist. feed
- 1528 Lt Dist. water
- 1.76 Water/Feed
- 41 Archive day
- 26-02-18 Archive date
- Exit, Day (−), Day (+)

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
- Exit, Page 1 of 8, Up page, Down page

CYCLE TOTAL:
Feeding
Feed total	831 Qli
Water total	1555 Qli
Water/Feed	1.87

Silo
Total upload	833 Qli
- Exit

Silo upload archive

Cycle total archive

Data transfer

From XP61 → USB → **To P.C.**
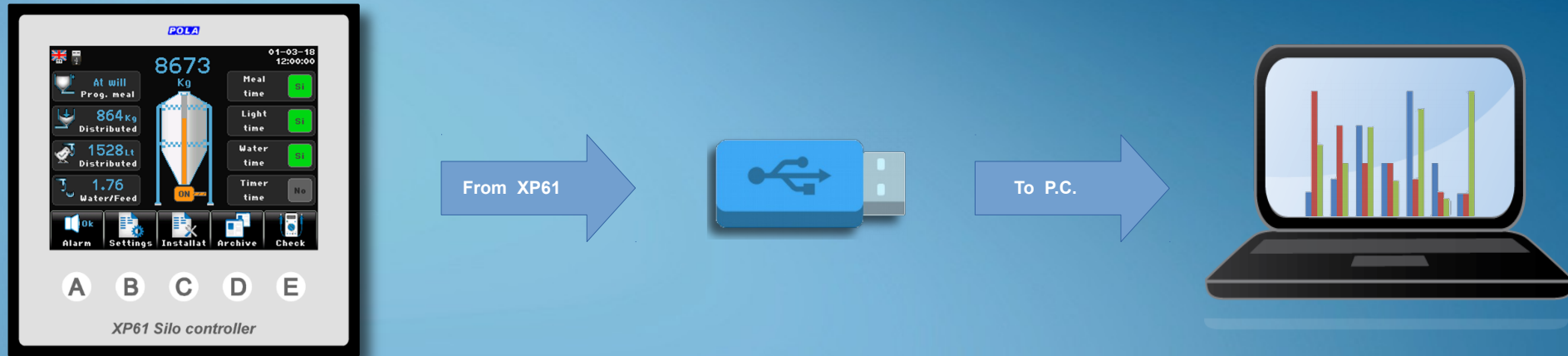
The communication with the outside world is performed by USB key

→ **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 suing 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

internet

TR04

TR04 Max 400m

Cable 3x0.5mm2 Max 1000m

ULAN

XNET

XNET

XNET

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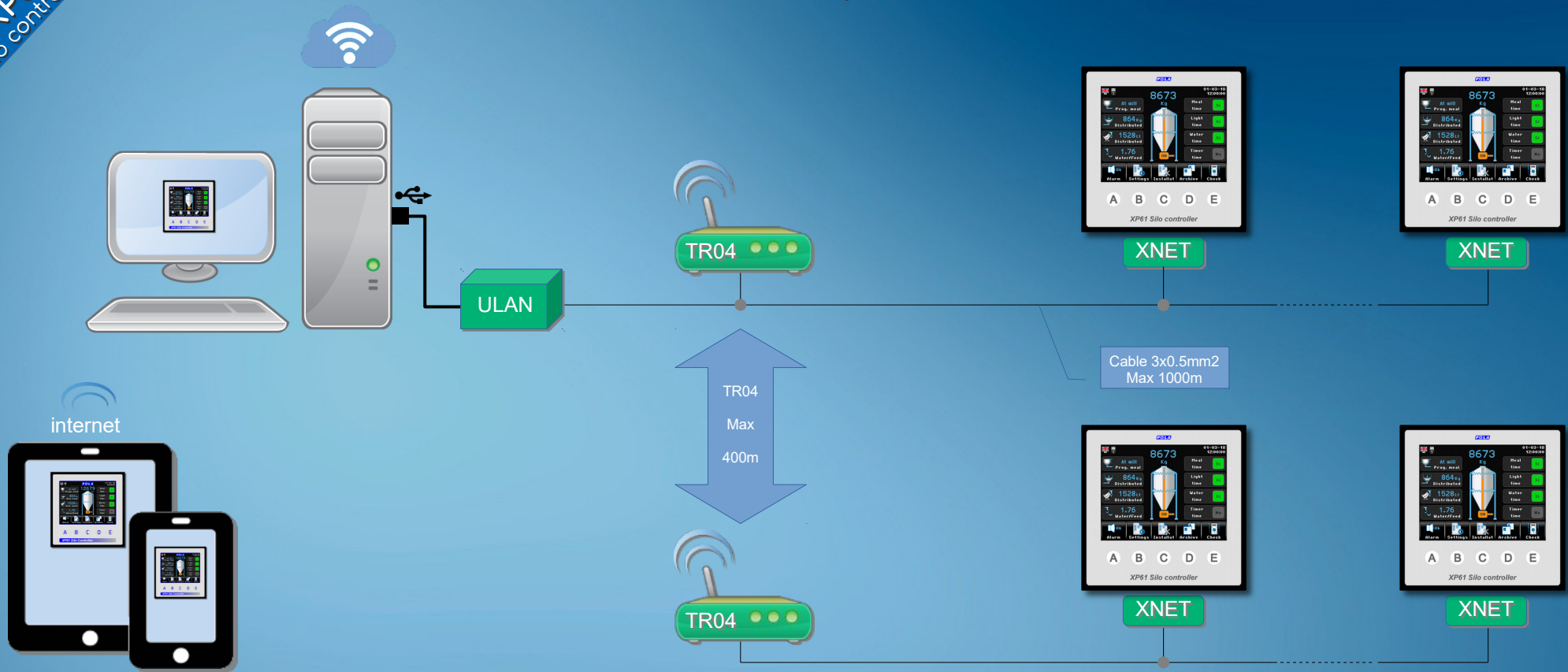
Remote supervision of XP61 processors grants the full management of system by PC.

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.
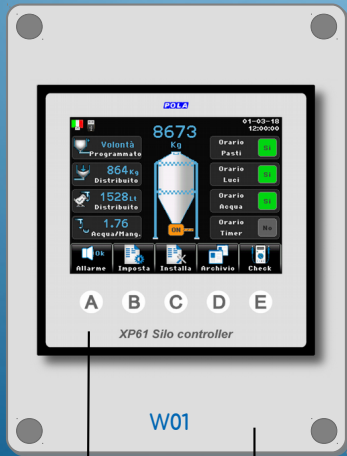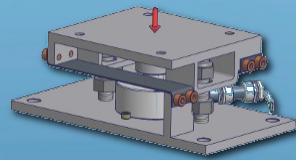
CN5+U10

CWD

USBP

TR04

XP61   W01
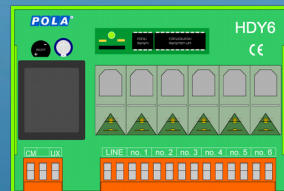
HDY6
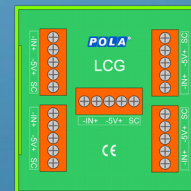
LCG

ULAN
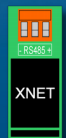
XNET

HP61 vs XP61
functions comparison

XP61 Silo controller

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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