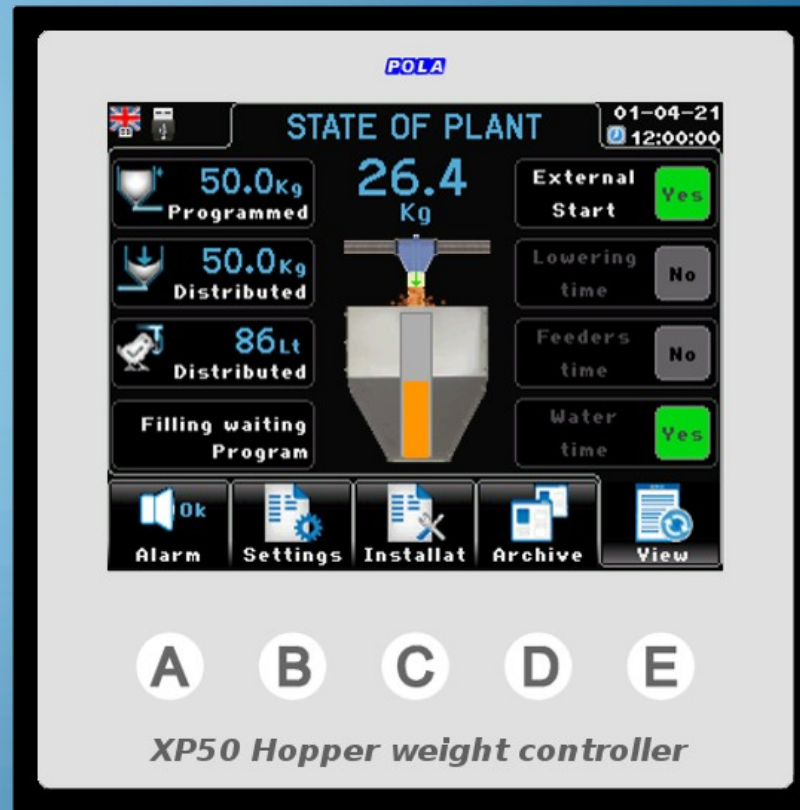


XP line
small size, great power



Main feature

The main feature of the XP50 is the color display screen (3.5") with 320x240 dots resolution with led backlighting. XP50 is made in DIN 96x96 format and the module dimensions are 96x96mm.

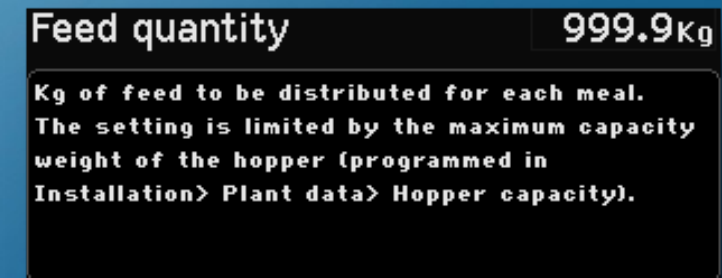


The user interface is easy and friendly. The easy touch screen system gives both the typical "easy to use" approach of a touch screen system and the strength and mechanical protection of a polycarbonate IP54 keyboard.

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.



Hopper weight controller



XP50 Hopper weight controller for the rationed distribution of feed in breeding and weaning farms.

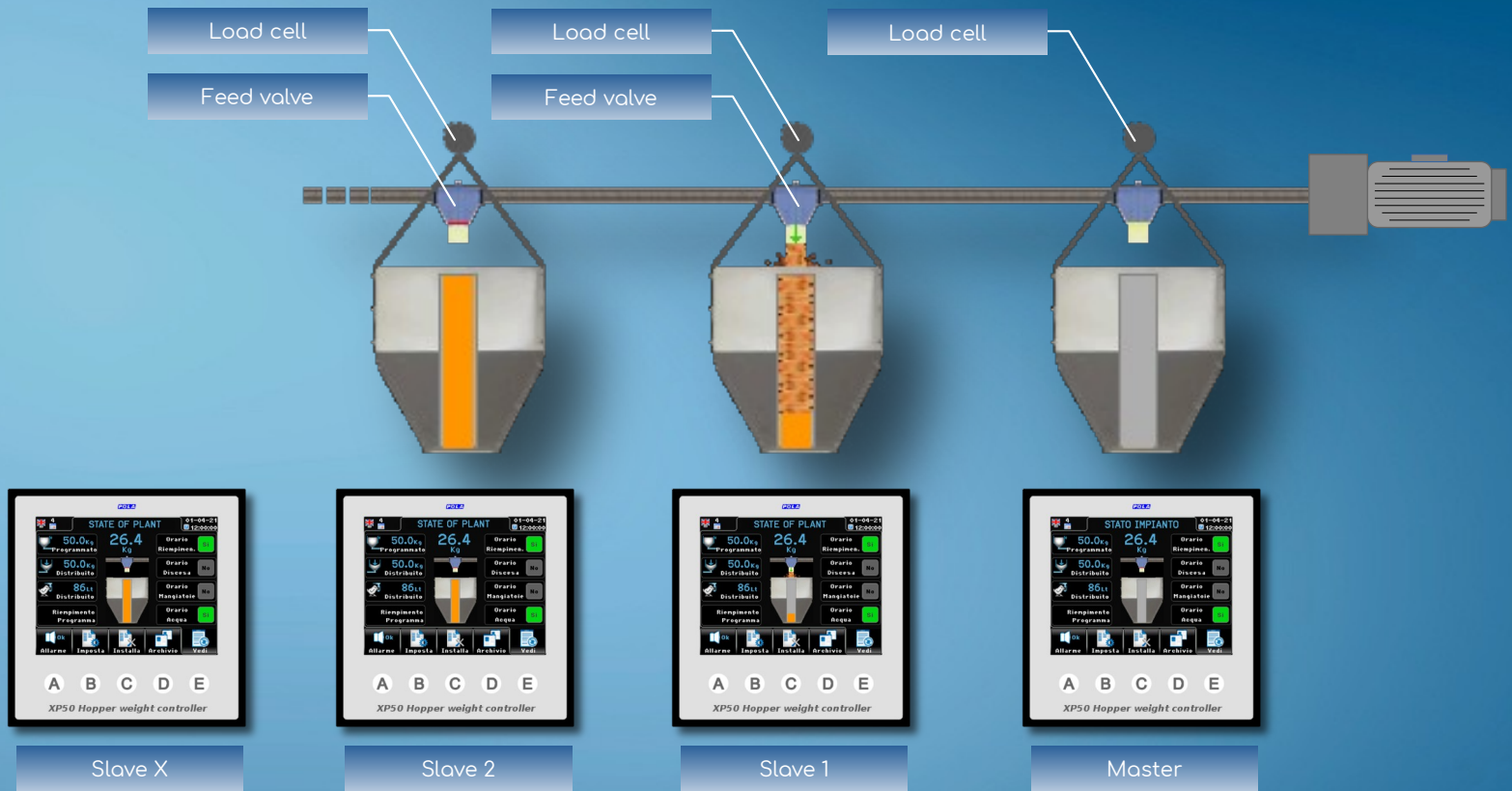
XP50 manages the feed control on its own line of feeders by controlling the weight of the line hopper.

The principle of operation is as follows:

- At the Filling time, the Kg of feed from the ration is loaded into the hopper.
- At the Descent time, the feeders are brought down.
- At the Feeders time, feeders are started (which can also work in timing with On and Off times).
- At the Water time, water is distributed (a water-meter can be connected, to record water consumption).
- Up to 8 meals per day can be programmed.

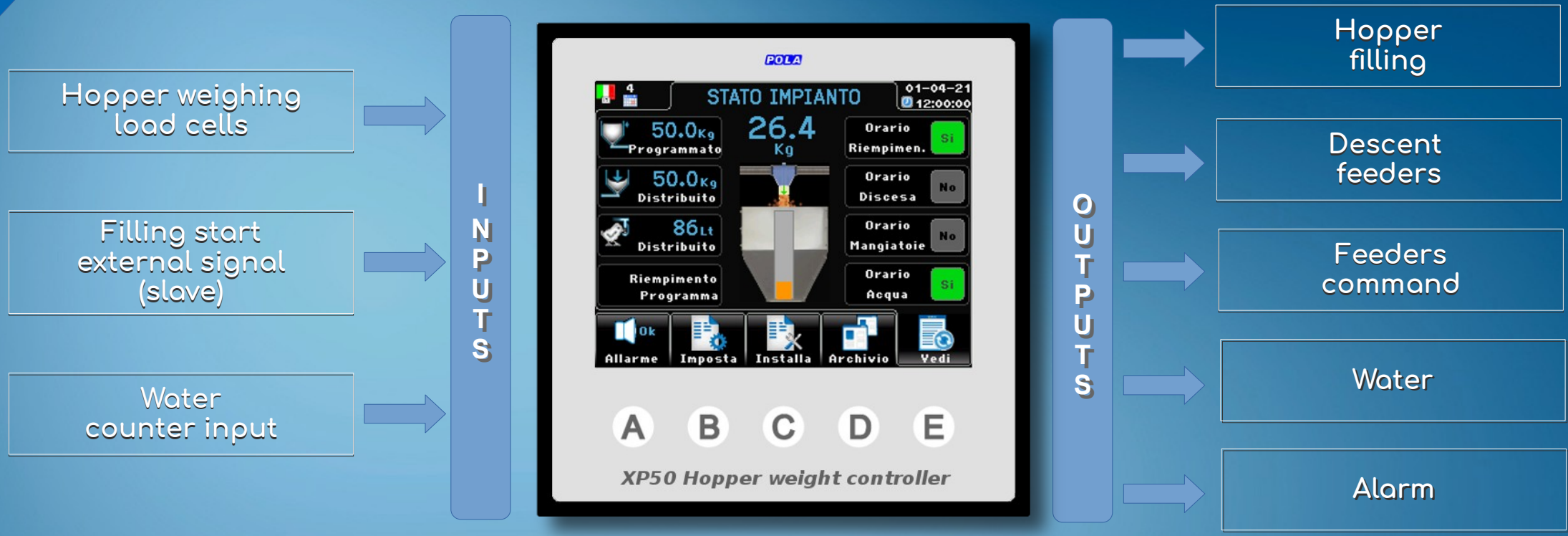
In case of several distribution lines, XP50 can work both as a Master (on the first line) and as a Slave (on the other lines), so that the start times (hopper filling, feeders descent, feeders start, water) are set only on the Master (ensuring the synchronization of the various start), while the feed quantity to be distributed is rationed for each individual distribution line, for details see: Master/slave operation.

Master/Slave operation



XP50 Master controls the hopper next to the auger motor (which does not have a feed valve): the hopper filling command starts the auger (the hopper will be the last to fill). XP50 Slaves control the filling of the other hoppers by opening the relative feed valve. The start times (hopper filling, feeders descent, feeders start, water) are set only on the Master (ensuring the synchronization of the various start), while the feed quantity to be distributed is rationed for each individual distribution line.

Inputs and outputs



Other available connections

- **USB plug**
XP50 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 XP50 processor ([see remote supervision](#))

XP50 records all the parameters of the cycle



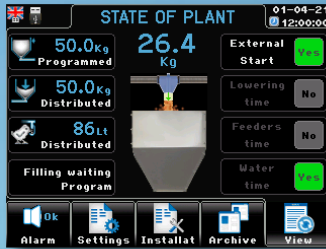
For all days of the cycle, the archive allows to record the following parameters:

- Programmed feed
- Distributed feed
- Distributed water
- Hopper filling time

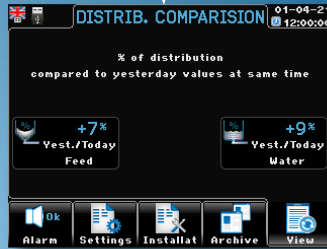
Sample screenshots



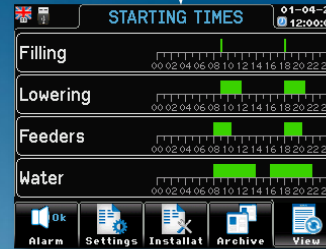
Viewing screens



Home page (state of plant)



Home page (distribution comparison)



Home page (starting time)



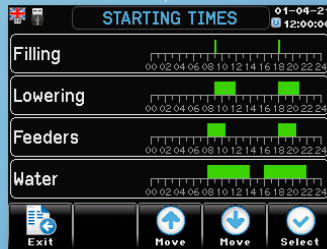
Home page (program state)



Settings screens



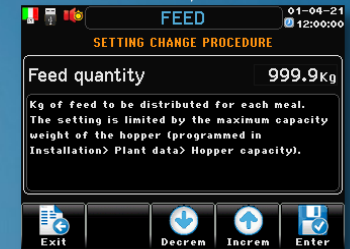
Settings selection



Setting starting times



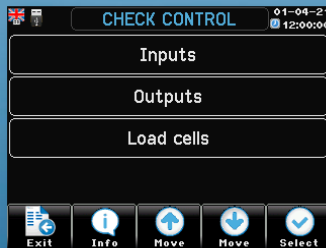
Setting filling times



Setting feed quantity



Archive screen



check control selection



Outputs condition

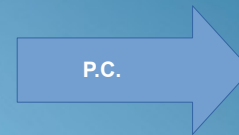


Inputs condition



Cells inputs state

Data transfer



The communication with the outside world is performed by USB key.

→ **Export archives**

XP50 save in the USB memory a file containing all the day by day recorded data of the cycle.

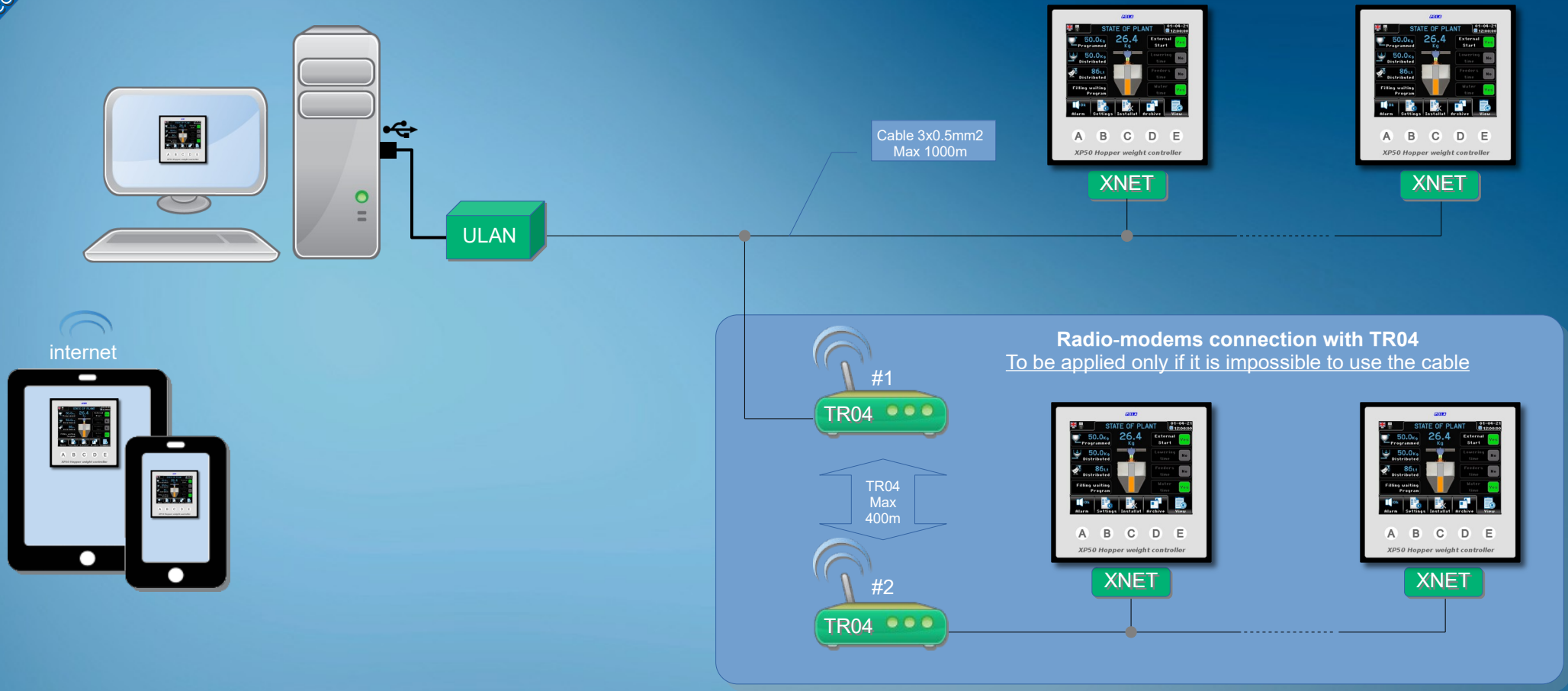
Connecting the USB key to a PC and by using the XP50 Dialogue software you can browse the recorded data in grid or graph formats.

→ **Importing / saving the setting**

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

Saved settings can be uploaded on XP50 anytime by a user friendly procedure.

Remote supervision



Remote supervision of XP50 processors grants the full management of system by PC.

The XP50 Net Pro supervision software enables the full remote control of network connected processors. ULAN peripheral is connected to PC through a USB connection. XP50 – ULAN connection is done by a simple 3 wires cable. In all cases where ULAN cannot be cabled to XP50 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 XP50)
- TR04: Radio-modem 485 (optional, to be used only when it is not possible to use the cable)

Technical specification



- DIN96 module for panel mounting
- Protection degree: IP54 (front panel)
- Case material: ABS
- Power supply: 100-240V 50/60Hz
- Power consumption: 3W



- Dimension: 170x135x85mm (HxLxP)
- Protection degree: IP54
- Case material: PVC
- Power supply: 100-240V 50/60Hz
- Power consumption: 3W
- Supplied with W01: CXP transparent cover that can be opened with a hinge.

Options

Model	Description
XP50	Hopper weight controller (DIN96 panel mounting)
----- Options -----	
W01	IP54 box for wall mounting + gasket + transparent cover CXP
CXP	Hinged transparent cover for XP + gasket
CM300	300Kg traction/compression cell stainless steel AISI 420 IP67 + 2 joints
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
XNET	Network nodal point
ULAN	Network server Pc (with USB connection)
TR04	Radio-modem 485 (IP55 junction box with power supply 230/12v)



XP50

W01



CM300



CWD



USBP



ULAN



XNET



TR04

POLA

www.pola.it

40th

40 YEARS OF INNOVATION