XP line
small size, great power

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 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

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

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.

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

Lights can be controlled by On/Off output.

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

HOPPER LIMIT SENSOR

WATER VALVE

SILO AUGER

FEEDING LINES

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WATER VALVE

SILO AUGER

FEEDING LINES
Inputs and outputs

- Load cells
- Hopper limit sensor
- Water counter

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

- Settings
- Setting selection
- Starting times selection
- Starting times (up to 8 programmable periods)

- Feed
- Feed to distribute setting

- Archives
- Archive to display selection
- Alarms archive
- Events archive
- Feeding archive

- Silo upload
- Cycle total archive
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 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>XP61</td>
<td>Silo weight controller (DIN96 panel mounting)</td>
</tr>
<tr>
<td>W01</td>
<td>IP55 box for wall mounting + gasket + transparent cover</td>
</tr>
<tr>
<td>LCG</td>
<td>Cell junction module</td>
</tr>
<tr>
<td>USBP</td>
<td>USB IP65 external plug (to be mounted externally, for access to the USB without the need to access the back of the XP61)</td>
</tr>
<tr>
<td>CWD</td>
<td>Water counter</td>
</tr>
<tr>
<td>HDY6</td>
<td>Relay outputs extension</td>
</tr>
<tr>
<td>XNET</td>
<td>Network nodal point</td>
</tr>
<tr>
<td>ULAN</td>
<td>Network server Pc (with USB connection)</td>
</tr>
<tr>
<td>TR04</td>
<td>Radio-modem 485 (IP55 junction box with power supply 230/12v)</td>
</tr>
<tr>
<td>CN5+U10</td>
<td>Load cell 5000Kg IP68, compression type, stainless steel complete with cable and sheath from 5 mt.</td>
</tr>
</tbody>
</table>
# HP61 vs XP61 functions comparison

<table>
<thead>
<tr>
<th>HP61</th>
<th>XP61</th>
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<tbody>
<tr>
<td>![Load cells input]</td>
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<tr>
<td>![Water meter input]</td>
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</tr>
<tr>
<td>![Automatic silo load detection]</td>
<td>![Automatic silo load detection]</td>
</tr>
<tr>
<td>![Max feed download alarm]</td>
<td>![Max feed download alarm]</td>
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<tr>
<td>![Max water download alarm]</td>
<td>![Max water download alarm]</td>
</tr>
<tr>
<td>![Daily archive management]</td>
<td>![Daily archive management]</td>
</tr>
<tr>
<td>![Daily meals clock]</td>
<td>![Daily meals clock]</td>
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<tr>
<td>![Daily water clock]</td>
<td>![Daily water clock]</td>
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<tr>
<td>![Daily light clock]</td>
<td>![Daily light clock]</td>
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<tr>
<td>![Free daily timer clock]</td>
<td>![Free daily timer clock]</td>
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<tr>
<td>![Daily archive of water and feed consumptions]</td>
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<tr>
<td>![Total cycle archive for water and feed consumptions]</td>
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</tr>
<tr>
<td>![Archive export by USB key]</td>
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<tr>
<td>![PC connection]</td>
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