XPWF automatic water flushing control
The main feature of the XPWF is the color display screen (3.5”) with 320x240 dots resolution with led backlighting. XPWF 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.
XPWF manages the automatic control of the washing of the drinking lines (up to 16 lines)

The Washing function keeps the water lines cleaned and is made by running the water with the line pressure during a pre-set period of time (or in quantities of liters if a water meter is installed) in the drinking lines. Each line is washed separately (with washing times or quantities in liters independent for each line).

Washing can be activated in different ways:

- Automatic washing in sequence of all the lines for the time / liters programmed daily (even at alternate days). You can set calendar washes based on the day of life of the birds.
- Automatic washing in sequence after a medicated cycle.
- Automatic washing in sequence due to the intervention of a dirty water sensor.
- Manual washing in sequence of all the lines (or selective) for the programmed time / liters.
XPWF manages the automatic control of the water cooling of the drinking lines (up to 16 lines)

The Cooling water functions cools the drinking water and is carried out by running the water with the line pressure during a pre-set period of time (or in quantities of liters if a water meter is installed) in the drinking lines. Each line is cooled separately (with cooling times or quantities in liters independent for each line).

Cooling water function can be activated in several ways:

- **Automatic water cooling in sequence of all the lines for the time / liters programmed at the times of the day (typically are the times preceding the watering):** if the water temperature probe is installed (probe N.1) the Cooling only start if the water temperature requires it, and if the supply water temperature probe (probe N.2) is installed, the Cooling starts only if the water temperature of the line is lower than that of the drinking lines (Delta T function) and can also be excluded if the line water is too cold (to avoid condensation effects on watering lines).
- **Manual water cooling in sequence of all lines (or selective) for the programmed time / liters.
XPWF records all operations performed, consumption and temperatures.

The daily archive records the following parameters:

- n° Washing by time
- n° Washing for medication
- n° Washing for dirty water sensor
- n° Cooling water by time
- n° Cooling water for medication
- n° Cooling water for temperature
- Water temperatures
- Total Liters / day
- Total Liters / cycle
Inputs and outputs

- USB plug
  XPWF has a USB plug on the back.

- XNET
  Network connection card (optional) for XPWF processor (see remote supervision).

Other available connections

- Drinking troughs 1........16
- By-pass signal contact
- Alarm output

Water temperature probe for drinking water (option)
Water temperature probe for line water (option)
Water-counter (option)
Medicated signal in function for wash / cooling block
Dirty water signal sensor (option)
The communication with the outside world is performed by USB key.

- **Export archives**
  XPWF 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 XPWF 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 XPWF anytime by a user friendly procedure.
Remote supervision of XPWF processors grants the full management of system by PC.

The XPWF Net Pro supervision software enables the full remote control of network connected processors. ULAN peripheral is connected to PC through a USB connection. XPWF – ULAN connection is done by a simple 3 wires cable. In all cases where ULAN cannot be cabled to XPWF 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 XPWF)
- TR04: Radio-modem 485 (optional, to be used only when cable connection is not possible. they need at least 2)
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>XPWF</td>
<td>Wall panel for water washing, watering lines for 16 zones (valve control output: N.O. contact)</td>
</tr>
<tr>
<td>HDR-30-24</td>
<td>Option for 24V d.c. valve control</td>
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<tr>
<td>TM-30-24</td>
<td>Option for 24V a.c. valve control</td>
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<tr>
<td>SXG3</td>
<td>1/8 &quot;water temperature probe (one can be installed for water temps and one for water temperature)</td>
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<tr>
<td>CWD</td>
<td>Water counter</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>
</tbody>
</table>
XPWF automatic water flushing control

Dimension: 270x230x130mm (HxLxP)  
Protection degree: IP54  
Case material: PVC  
Power supply: 100-240V, 50/60Hz  
Power consumption: 5W  
Supplied with: CXP transparent cover that can be opened with a hinge.