Poultry House Controllers

EPC series

Poultry House Controllers

Layer
Egg production

Broiler
Chicken productions for excellent quality meat

Breeder
Mother and father growth for broiler and layer

Configurable "AGE CURVE",

Easy to use,

Two zones house temperature measurement & control,

Heating, cooling and humidity control,

Feeding control from age curves, feeding storage silo weight measurement & control,

Lighting control from age curves, lighting control with analogue output,

Outside temperature measurement and intelligent influence on controls,

Outside temperature min. and max. data daily recording & logging,

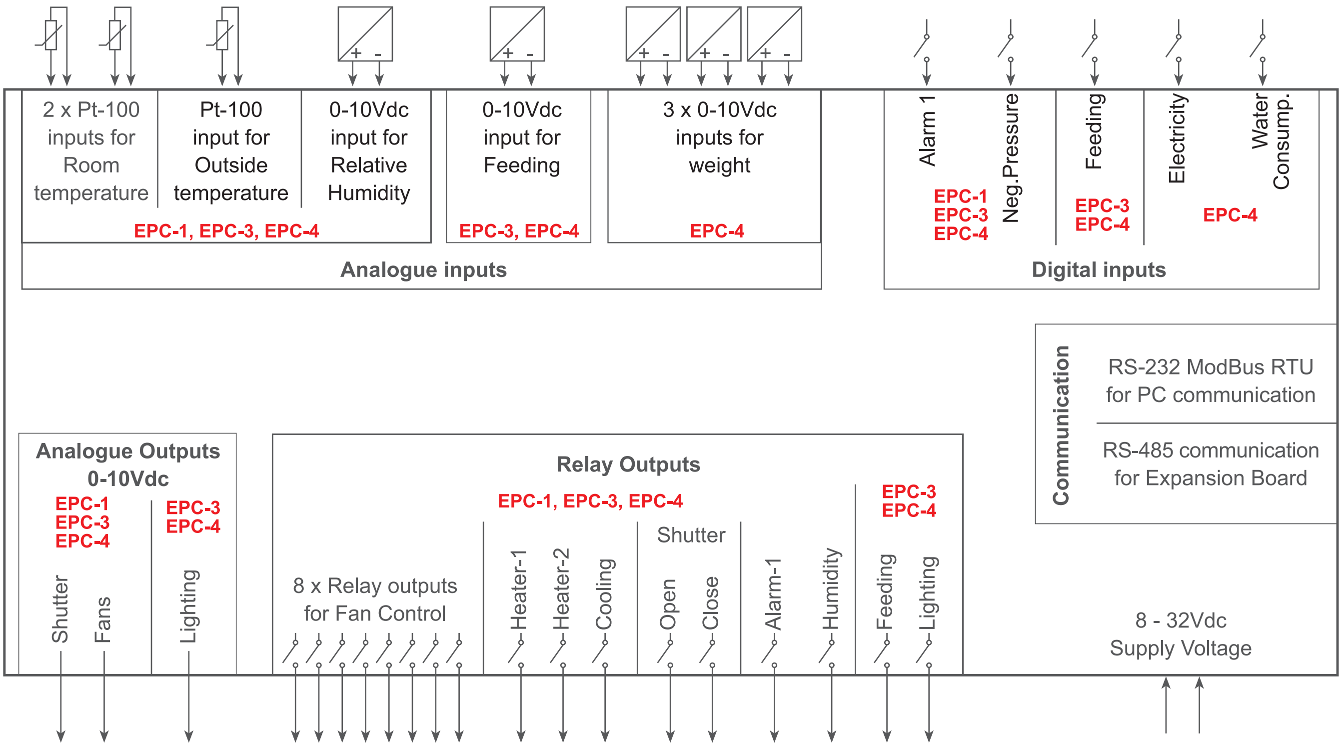
Water, Electricity, Food consumption measurement, daily data recording & logging,

Ventilation control with 8 stages relay outputs and analogue output,

Shutter Open/Close control with relay outputs and analogue output,

Animal weight measurement from up to 3 scales placed in house,

Daily animal weight recording & logging ...



Functions	EPC-1	EPC-3	EPC-4
Age CURVE	+	+	+
RS-232 / RS-485 Serial Communication, ModBus RTU protocol	+	+	+
Pt-100 input -1, Room Temperature Measurement	+	+	+
Pt-100 input -2, Room Temperature Measurement	+	+	+
Pt-100 input -3, Outside Temperature Measurement	+	+	+
8 Relay Outputs for Fans	+	+	+
0-10Vdc Analogue Output for Fans	+	+	+
Heater-1 and Heater-2 Relay Outputs	+	+	+
Cooling Relay Outputs	+	+	+
Alarm Relay Output and 2 Alarm Signal Inputs	+	+	+
Shutter Open/Close Relay Outputs	+	+	+
0-10Vdc Analogue Output for Shutter Control	+	+	+
Humidity Control Relay Output & %RH measurement	+	+	+
Feeding Relay Output & Feeding weight measurement		+	+
0-10Vdc Analogue Output for Lighting Control		+	+
Feeding Consumption Log		+	+
Lighting Curves & Lighting Relay Output		+	+
Water & Electricity Consumption measurement inputs (pulse) & Log			+
3 animal weight measurement inputs & Log			+


```
WATER CONSUMPTION

03.07.08          02.11.27
RESET CONSUM:           NO
DAILY CONSUM:        430LT
TOTAL CONSUM:      15316LT
DAY NUMBER   :          12
```

```
ELECTRICITY ENERGY
CONSUMPTION
03.07.08          02.11.28
RESET CONSUM:           NO
DAILY CONSUM:        15KWH
TOTAL CONSUM:      5018KWH
DAY NUMBER   :          12
```

```
WEIGHTING1 LOG
03.07.08          02.11.26
TARE           :        NO
LOG CLEAR      :        NO
ACT AVERAGE    :     151GR
YSTR AVERAGE   :     143GR
TOTAL WEIGH    :     980GR
DAY NUMBER     :        12
```

```
03.07.08          02.11.27
HOUSE               20.2°C
OUT                 12.1°C
FEEDING                OKG
DAY          -5      CURVE
```

```
03.07.08          02.11.27
HOUSE               20.2°C
ROOM1               20.2°C
ROOM2               30.4°C
FEEDING                65%
DAY          -5      CURVE
```

```
SYSTEM MONITORING
TMPSETCURVE:       20.0°C
ROOM1 TEMP  :      15.1°C
ROOM2 TEMP  :      19.4°C
OUTSIDE TMP:       25.3°C
MAXVNTCURVE:       8%00
MINVNTCURVE:       0%00
VENTILATION:       0%00
```

```
MAX & MIN VALUES 1

HOUSE MIN  :      20.2°C
TIME       :       02:11
HOUSE MAX  :      30.4°C
TIME       :       13:21
```

```
          EVENTS

EVENT   1

04.07.2008    11:07:03
```

```
ALARM SET VALUES
ABSOLUTE MIN:    16.0°C
ABSOLUTE MAX:    38.0°C
DIFFERENTIAL:     6.0°C
TYPE            :NONLATCH
```

```
   PROCESS OUTPUTS
HEATING1          :   43%
HEATING2          :   65%
COOLING           :    5%
HUMIDITY          :   23%
VENTILATION       : 5%00
SHUTTER           : 1%00
LIGHTING ANALOG:      10%
```

```
       SET VALUES
TEMP.HOUSE:    20.0°C
TEMP.HEAT :    -2.0°C
TEMP.COOL :    -1.0°C
HUMIDITY  :       20%
VENT.MIN  :    0%00
VENT.MAX  :    8%00
DAY       :       -5
```

```
      INFLUENCE 1
F.L.O.T/MN.VNT:     NON
T.L.O.T/MN.VNT:   -25.0
MAX.VENT COOL :    8%00
F.L.O.T/T.OFF :     NON
T.L.O.T/T.OFF :   -25.0
```

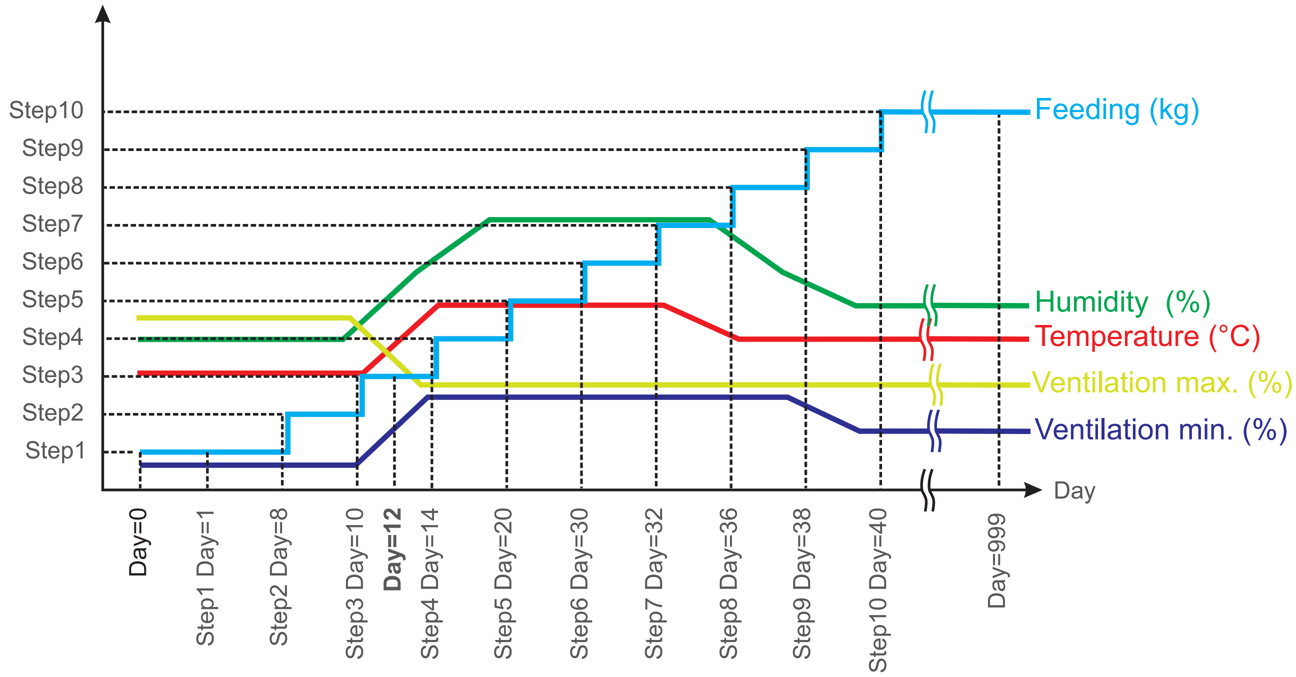
What is an "Age Curve"?:

Optimal temperature, ventilation, humidity, feeding and lighting values change day by day. EPC offer automatic adjustment of optimal values, depending on entered parameters which are in CURVE SETUP pages. This function is called "AGE CURVE".

```
    CURVE SETUP
CURVE STEP:       1
DAY       :       1
HOUSE TEMP:   33.0°C
MIN. VENT :   0%01
MAX. VENT :   1%00
HUMIDITY  :     65%
```

```
FEEDING PARAMETERS
CURVE STEP 1
    HR:MN       FEE<KG>
Y1: 06:00          150
Y2: 10:00          200
Y3: 12:00          100
Y4: 19:00          100
Y5: 22:00          200
```

```
LIGHTING PARAMETERS
CURVE STEP 1
    HR:MN HR:MN  OUT%
A1: 04:00 02:00    20
A2: 07:00 01:00    40
A3: 08:30 01:30    50
A4: 16:00 00:00     0
A5: 21:00 02:00   100
```



Breeder

Mother and father growth for broiler and layer

Broiler

Chicken production for excellent quality meat

Layer

Egg production

EMKO Elektronik Sanayi A.Ş.

Demirtas Organize Sanayi Bölgesi
Karanfil Sk. No:6 16369 BURSA-TR
Tel: +90 224 261 19 00, Fax: +90 224 261 19 12

www.emkoelektronik.com.tr