EWLP-Printwell

COMMERCIAL REFRIGERATION

Invensys Controls Europe
An Invensys Company

Printers

Thermal paper printers

EWLP 120

EWLP 120 RT

Printwell 1200

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EWLP120: characteristics

- Wall mounting, maximum dimensions 161X192X94 mm;

- IP 65 with the front cover mounted and closed; IP 40 with the front cover open (during print-out);

- Power supply: 230 V 50/60 Hz; internal transformer protected by thermal PTC;

- Case plastic in ABS;

- Operating temperature: 0...50 °C;

- Storage temperature: -10...70 °C;

- Selectable language for the printings;

- RTC;

- Display to show values or time
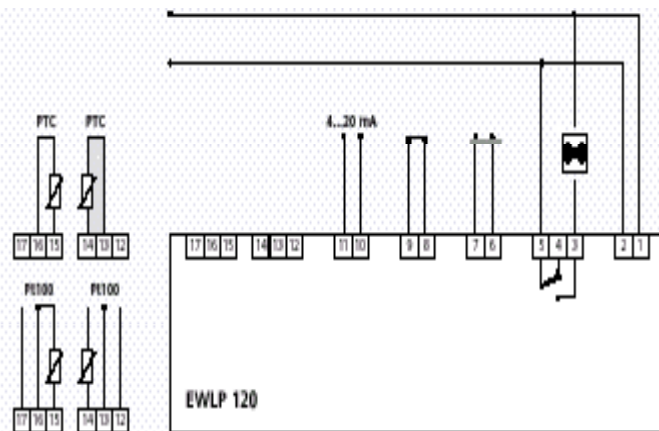
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EWLP120: characteristics

🔴 <u>Analogue inputs:</u>
up to two, adjustable by dip-switches as:
2 PTC KTY 81-121, range –10...70 °C;
2 Pt100 3 wires, range –80...350 °C;
1 PTC + EWPA 030, range 0...30 bar;
1 PTC + EWHS 300, range 0...99,5 % R.H.;
1 Pt100 + EWPA 030, range 0...30 bar;
1 Pt100 + EWHS 300, range 0...99,5 % R.H.;

🔴 <u>Digital input</u>
1, to detect the door switch status and open door alarm;

🔴 <u>Output</u>
1, on relay 8(3)A/250 V for alarm management;

🔴 <u>Other</u>
12 Vdc input for external backup-battery;
permets recording without main power supply and battery re-charge;

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EWLP120: data recording & view

- Using a microprocessor, records up to 1.000 values, at customer configurable interval;
- In case of exceeding memory capabilities the first data will be deleted;
  Recording can be enabled on each channel by push-button, and status checked by led;
  After a printing, before restart recordings, Instrument memory must be cleared using the function key;
- Display shows value of the selected channel;

Print-out is possible only manually (Print button), and reports:
Date & Time;
Printer code;
Alarm settings (if enabled);
Value of each channel;
Paper dimension: 57 mm;

```
EwCode  N°:
RECORDER  CODE :      99490113
Z1 SET ALR POS:         0000
Z2 SET ALR POS: 18.0 °C
PRINTED ON: 100   UR%
READING TIME: 18-11-2002
RECORDING   00:30
18-11-2002  STARTS:
time     Z1 °C     Z2 UR%
08:46    22.5      OFF
08:46    22.5 *    26    *
RECORDING  STOPPED
PRINTING REQUEST
```

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EWLP120: Alarm management

- Alarm temperature can be enabled or disabled on both channel by parameter;
- High an low alarm (absolute values) adjustable for each channel;
- General alarm management, as: Eeprom, paper presence, full memory, probe error, RTC error;
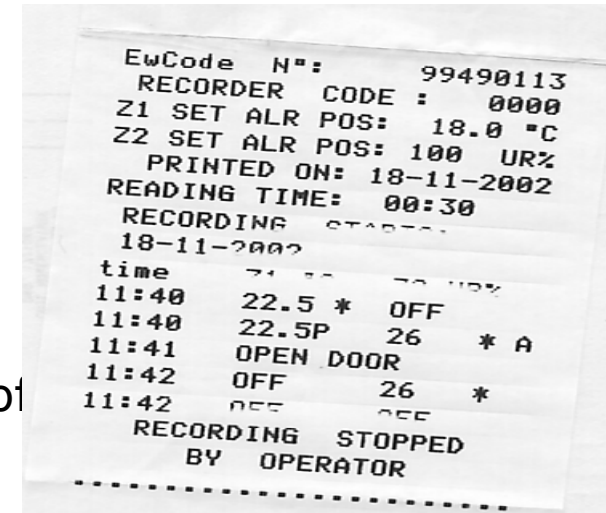
```
EwCode   N°:         99490113
  RECORDER   CODE :     0000
Z1 SET ALR POS:   18.0 °C
Z2 SET ALR POS: 100   UR%
   PRINTED ON: 18-11-2002
READING TIME:   00:30
  RECORDING   START:
18-11-2002
time      Z1 °C    Z2 UR%
11:40     22.5 *   OFF
11:40     22.5P    26    * A
11:41     OPEN DOOR
11:42     OFF      26    *
11:42     OFF      OFF
  RECORDING   STOPPED
    BY  OPERATOR
```

- In case of alarm a start is printed near the value of the channel;

- In case of open door alarm, the status is printed on the paper;
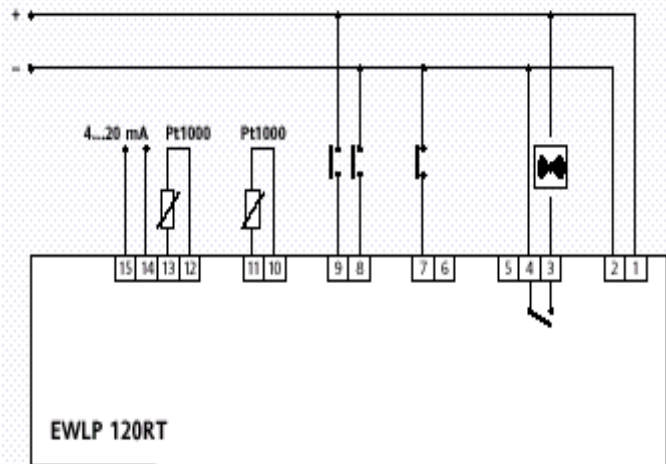
EWLP120RT: characteristics

Special model for refrigerated trucks

- Wall mounting, maximum dimensions 161X192X94 mm;

- IP 40 on the frontal part;

- Power supply: 12…24 Vdc, –5%, +10% transformer protected by thermal PTC;

- Case plastic in lexan;

- Operating temperature: –40…80 °C;

- Storage temperature: –50…90 °C;

- Selectable language for the printings;

- RTC;

- Display to show values or time

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EWLP120RT: characteristics

EWLP 120

EWLP 120RT

- **Analogue inputs:**
up to two, adjustable by dip-switches as:
2 Pt1000, range –60...50 °C, 2 wires;
1 Pt1000 + EWPA 030, range 0...30 bar;
1 Pt1000 + EWHS 300, range 0...99,5 % R.H.;
- **Digital inputs**
3, with this function:
1 to detect the door switch status and open door alarm;
1 to detect defrost cycles status;
1 to key of the vehicle inserted: with key inserted power consumption is 80mA (300 mA during print-out); with key not inserted consumption is 60 mA
- **Output**
1, on relay 8(2)A/24 Vdc for alarm management;
- **Other**
12 Vdc input for external backup-battery; permets recording without main power supply and battery re-charge;

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EWLP120RT: data recording & view

- Using a microprocessor, records up to 1.000 values, at customer configurable interval, defrost and open door events;
- In case of exceeding memory capabilities the first data will be deleted;
  Recording can be enabled on both channel by push-button, and status checked by led;
  After a printing, before restart recordings, Instrument memory must be cleared using the function key;
  Display shows value of the selected channel;

- Print-out is possible only manually (Print button), and reports:
  Date & Time;
  Printer code;
  Alarm settings (if enabled);
  Value of each channel;
  Paper dimension: 57 mm;

```
EwCode  N°:
RECORDER  CODE :      99490113
Z1 SET ALR POS:        0000
Z2 SET ALR POS:  18.0 °C
   PRINTED ON: 100  UR%
READING TIME: 18-11-2002
RECORDING  STARTS: 00:30
18-11-2002
time      Z1 °C      Z2 UR%
08:46     22.5        OFF
08:46     22.5 *  26      *
   RECORDING  STOPPED
   PRINTING  REQUEST
```

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EWLP120RT: alarm management characteristics

🔴 Alarm temperature can be enabled or disabled on both channel by parameter;

🔴 High an low alarm (absolute values) adjustable for each channel;

🔴 General alarm management, as: Eeprom, paper presence, full memory, probe error, RTC error;
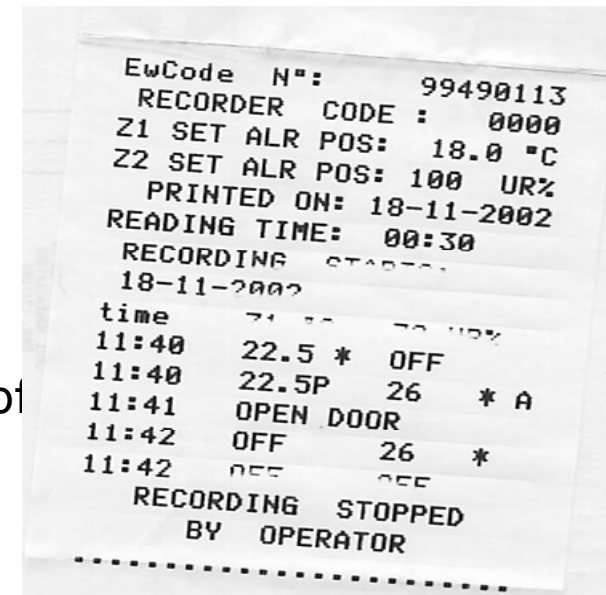
```
EwCode   N°:          99490113
  RECORDER   CODE :      0000
Z1 SET ALR POS:    18.0 °C
Z2 SET ALR POS:  100   UR%
   PRINTED ON:  18-11-2002
READING TIME:    00:30
  RECORDING   STARTED
18-11-2002
time
11:40     22.5 *  OFF
11:40     22.5P   26    * A
11:41     OPEN DOOR
11:42     OFF     26    *
11:42     OFF     OFF
  RECORDING   STOPPED
    BY   OPERATOR
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

🔴 In case of alarm a start is printed near the value of the channel;

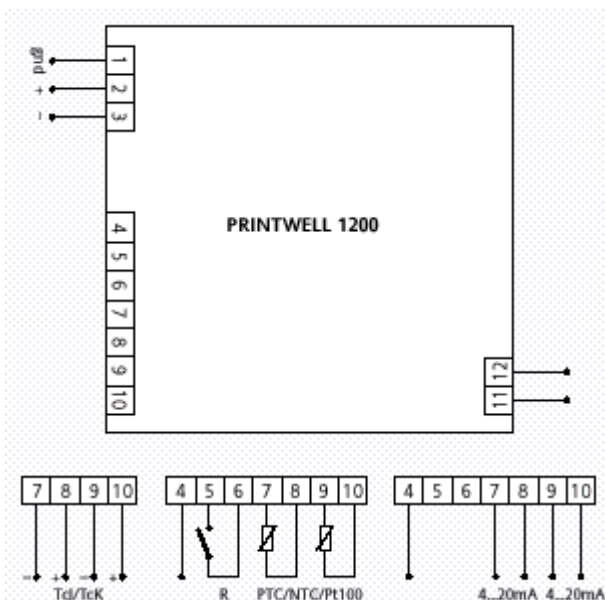🔴 In case of open door alarm, the status is printed on the paper;

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Printwell1200: characteristics

- Panel mounting, maximum dimensions 96X96X90 mm;

- IP 30 for the frontal part;

- Power supply: 230 V or 12 Vdc, according to the model; 50/60 Hz;

- Case plastic in ABS, self-extinguish;

- Operating temperature: 0...55 °C;

- Humidity: 10...90 % R.H., no condensing;

- RTC;

- Display to show the status of the printer;

- Adjustable parameters, by frontal keypad

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Printwell1200: characteristics

Analogue inputs:
up to two, adjustable by parameter as:
PTC, NTC, TCJ and TCK, Pt100 (2 wires only),
generic 4...20 mA
Each channel can be enabled or desabled;

Digital input
1, to enable print-out via remote switch;

Other
2 x 12 Vdc output to supply transducer;

Printwell1200: data recording & view

- Records values, at customer configurable interval;
- In case of exceeding memory capabilities the first data will be deleted;
  Recording can be enabled on both in the same time, channel by push-button, and status checked by led;
- Display shows value of the selected channel;

- Print-out is possible manually (Remote print), on line (Records and prints), at an adjustable date/time :
- Date & Time;
  Value of each channel;
  Paper dimension: 58 mm;

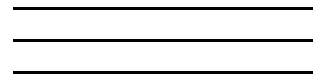| Date: 13/11/2002		
	AN1 (RH%)	AN2 (RH%)
0:09	38	20
0:24	38	20
0:39	38	20
0:54	38	20
1:09	38	20
1:24	38	20
1:39	38	20
1:54	38	20
2:09	38	20
2:24	38	20
2:39	38	20
2:54	38	20
3:09	38	20
3:24	38	20
3:39	38	20
3:54	38	20

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Printwell1200: alarm management

- Alarm temperature can be enabled or disabled on both channel by parameter;
- High an low alarm (absolute values) adjustable for each channel; General alarm management, as:
- Probe errors;

- In case of alarm date, time, type and status of the alarm are printed, according to the setup;

ONLINE REPORT

Reset: 18/11/2002

	AN1 (RH%)	AN2 (RH%)
13:26	48	23
13:26	AH On	–
13:27	48	23

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Printwell1200: expansion module

- Optional module to have 4 additional channels

- RS 485 connection, max 15 m

- 4 DINRail, power supply 12V or 110...240 V

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Thanks!

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