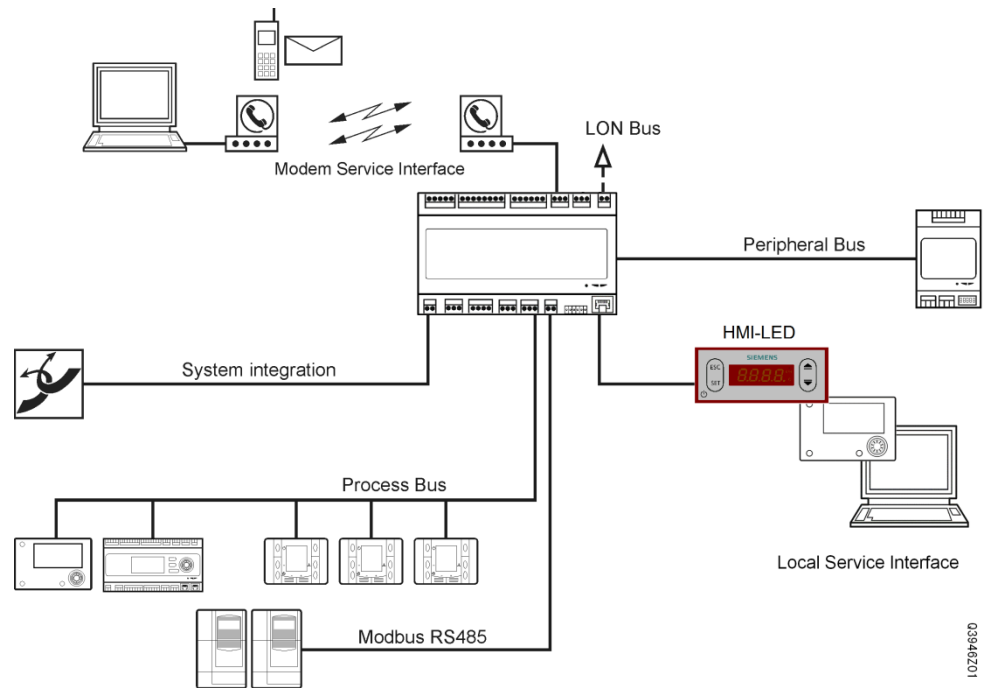




## Climatix™ HMI-LED POL831.25/STD

For Climatix range controllers POL6XX and POL4XX

- 4-digit LED display of temperature, humidity, operating modes and variables from controller POL4XX or POL6XX via Modbus communication
- 4 keys to operate the device and edit commissioning data and control parameters
- Standard network cable connection with RJ45 connector and Modbus RTU communication
- Panel mounted on control cabinet with IP54 in front
- Display, parameters and functions are highly flexible and programmable using Climatix tools based on the application field
- Power supply from Climatix controller over standard network cable

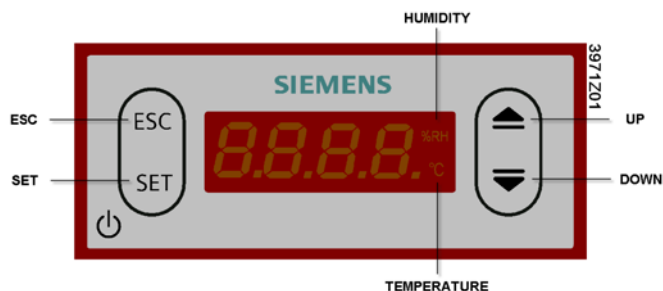


## Application

---

The HMI-LED is used in a simple control system, to display the temperature, humidity and to operate a unit, etc.

The function keys and LED indicators of the HMI-LED are illustrated as follows:

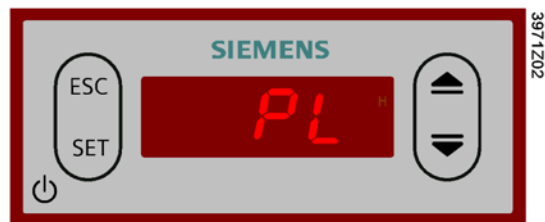


Name	Action	Description
<b>Key UP</b>	Press	<ul style="list-style-type: none"> <li>- To scroll up the present value list page;</li> <li>- To increase an input value</li> </ul>
	Press and hold*	<ul style="list-style-type: none"> <li>- To enter the present value list page</li> </ul>
<b>Key DOWN</b>	Press	<ul style="list-style-type: none"> <li>- To scroll down the present value list page;</li> <li>- To decrease an input value</li> </ul>
	Press and hold*	<ul style="list-style-type: none"> <li>- To enter the present value list page</li> </ul>
<b>Key SET</b>	Press	<ul style="list-style-type: none"> <li>- To enter the sub page;</li> <li>- To get value from the present value list or parameter list;</li> <li>- To confirm the modification of parameter list or the password input</li> </ul>
	Press and hold*	<ul style="list-style-type: none"> <li>- To switch to the parameter list page and alarm history page</li> </ul>
<b>Key ESC</b>	Press	<ul style="list-style-type: none"> <li>- To switch among digit position in parameter configuration page</li> </ul>
	Press and hold*	<ul style="list-style-type: none"> <li>- To exit to upper level menu;</li> <li>- To exit from the parameter list page;</li> <li>- To cancel the modification</li> </ul>
<b>Key SET+UP</b>	Press and hold*	<ul style="list-style-type: none"> <li>- To send unit switch ON/OFF command to controller from the default page</li> </ul>
<b>Key SET+DOWN</b>	Press and hold*	<ul style="list-style-type: none"> <li>- To acknowledge the alarm on the alarm list page</li> </ul>
<b>Key SET+ESC</b>	Press and hold*	<ul style="list-style-type: none"> <li>- To clear the history alarm records on alarm history page</li> </ul>
<b>LED Indicator HUMIDITY</b>	% RH light on	<ul style="list-style-type: none"> <li>- To indicate the real-time humidity</li> </ul>
<b>LED Indicator TEMPERATURE</b>	°C light on	<ul style="list-style-type: none"> <li>- To indicate the real-time temperature</li> </ul>
<b>Others</b>	No indication	<ul style="list-style-type: none"> <li>- To indicate the current value is neither temperature nor humidity</li> </ul>

\* Hold the key for more than 2 seconds.

## Display examples

### HMI-LED screen



### Character display

Character displayed on LED	0	1	2	3	4	5	6	7	8	9
Numeral represented	0	1	2	3	4	5	6	7	8	9

Uppercase letter displayed on LED	Uppercase letter represented	Lowercase letter displayed on LED	Lowercase letter represented
A	A	a	a
B	B	b	b
C	C	c	c
D	D	d	d
E	E	e	e
F	F	f	f
G	G	g	g
H	H	h	h
I	I	i	i
J	J	j	j
L	L	l	l
N	N	n	n
O	O	o	o
P	P	p	p
Q	Q	q	q
R	R	r	r
S	S	s	s
T	T	t	t
U	U	u	u
V	V	v	v
Y	Y	y	y
Z	Z	z	z

### Mechanical design

The HMI-LED is designed for panel mounting in a control cabinet.

## Ordering

---

Please specify the quantity (Min. 60), product name, ASN and SSN as follows.

Quantity	Product name	ASN	SSN
60	HMI-LED	POL831.25/STD	S55626-H312-F100

## Engineering notes

---

The HMI-LED is powered by the connected controller via RJ45 connector (low voltage, SELV). It must be connected to controller POL4XX or POL6XX using a standard network cable (not part of the delivery).

## Installation

---

The HMI-LED must be mounted on the control cabinet with easy clip fastened. See *Dimensions* on page 7 for the hole size.

Observe all local installation regulations.



**The equipment is not protected against accidental connection to AC 230 V.**

## Commissioning

---

As soon as the HMI-LED is connected to the controller via RJ45 connector, the parameter initialization restarts. If one parameter can't receive a response, the next request is delayed for 5 seconds to avoid flood frame on the bus.

## Disposal

---



The devices are considered electronics devices for disposal in term of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

## Technical data

Supply voltage	Operating voltage	DC 21..30 V	
	The HMI-LED receives power from the connected controller, via RJ45 connector (SELV, security extra low voltage according to HD384)		
	Power consumption (from connected controller)	Max. 0.48 VA	
Display	Type	Segment LED	
	Functions displayed	– Operating mode – Present value display – Parameter adjustment and setting	
Interfaces	Type of interface between controller and HMI-LED	2-wire interface RS485	
	Number of HMI-LED connected to a controller	1	
	Baud rate	9600 bps	
Cable connections	Connection terminals	RJ45	
	Cable type	Standard network cable	
	Max. distance between HMI-LED and controller	3 m	
Housing protection	Protection standard to EN 60529		
Protection class	Insulation protection class	IP 54 in front; other IP20	
Ambient conditions	IEC 60721-3	Normal operation	Transport
	Ambient air conditions	Class 3K3	Class 2K3
	Temperature	-20...60 °C	-0...70 °C
	Humidity	<85% r.h.	<93% r.h.
	Mechanical conditions	Class 3M1	Class 2M2
Industry standards	EU Conformity (CE)	CB1T3946xx *)	
	RCM Conformity	CB1T3946en_C1 *)	
Dimensions	See <i>Dimensions</i> , page 7		
Weight	Excluding packaging	70 g	
Communication	Protocol	Standard Modbus RTU	
	Baud rate	9600 bps	
	Interface	RJ45 connector	
Local service interface	Tool and HMI cable connection	RJ45 connector, 8 pins, length of cable<3 m	

\*) The documents can be downloaded from <http://siemens.com/bt/download>.

Dimensions (mm)

