

Climatix™

HMI-TM

POL871.71, POL871.72



The HMI-TM for display and system configuration for Climatix controllers

- Advanced operation and IP protection level for use outside
- High resolution 240 x 128 dpi
- 6 keys for easy operation
- ALARM, INFO, and CANCEL with LEDs
- User passwords for each access level
- Supports multiple languages
- Local HMI settings
- Data point access
- Powered by controller via the local HMI connection
- Version POL871.71 for magnetic mounting and as a mobile unit
- Version POL871.72 for permanent installation in the control panel
- Firmware can be upgraded

Communication concept

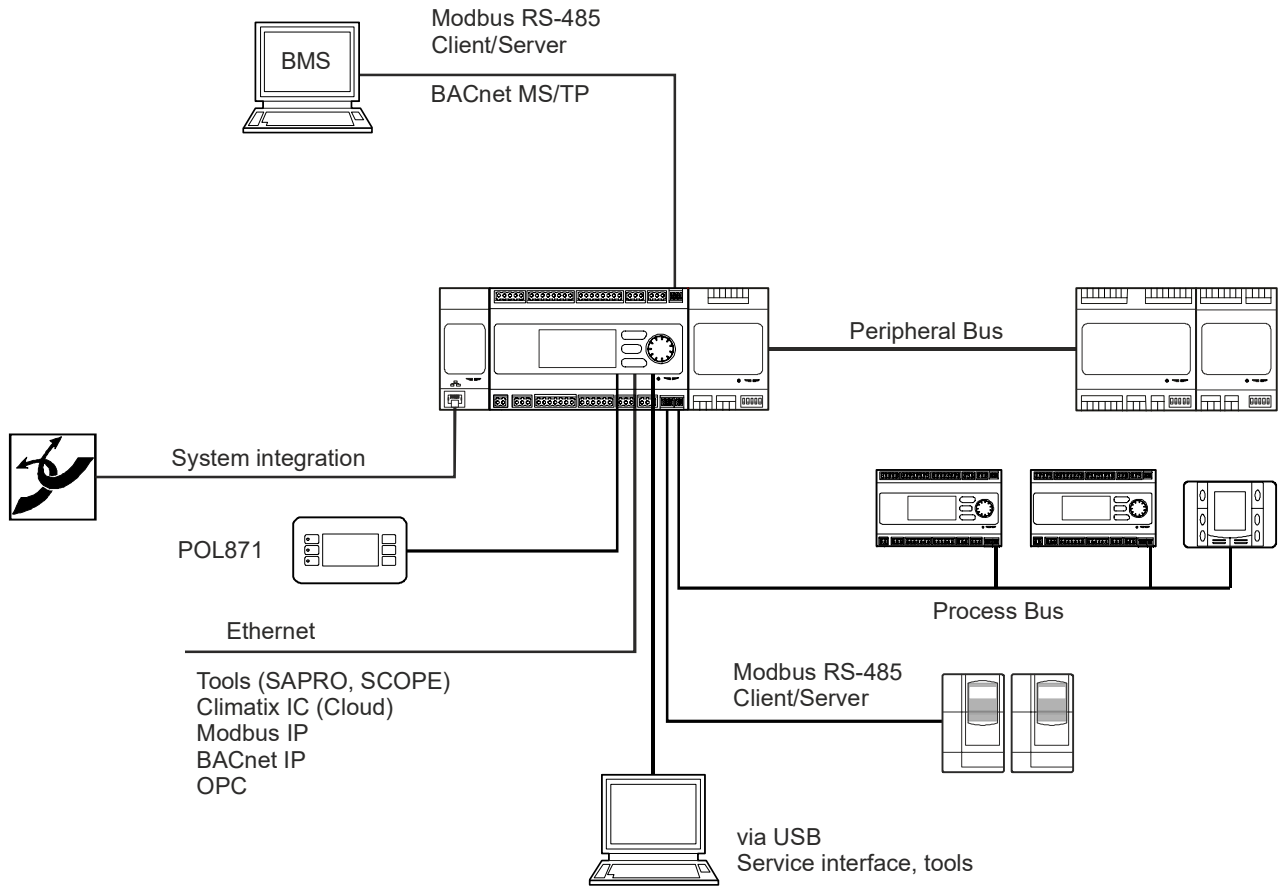


Fig. 1: Climatix POL6xx communication concept (here C600)

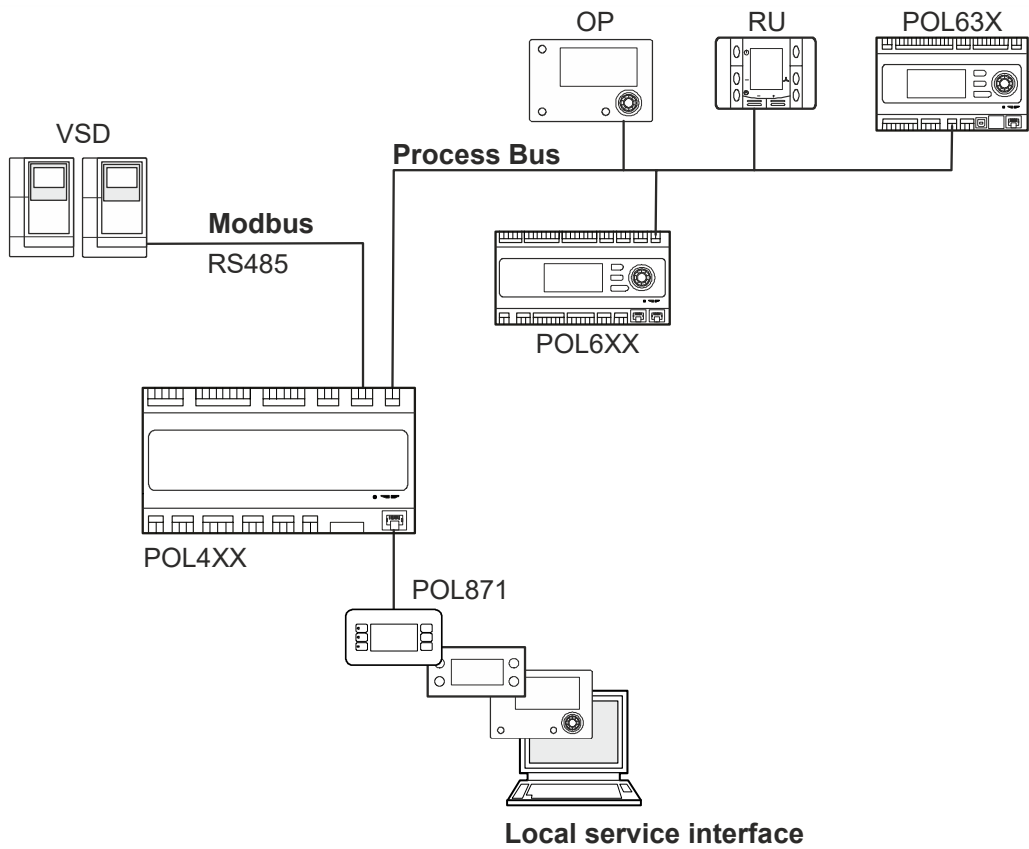


Fig. 2: Climatix POL4xx communication concept (here POL4xx)

| General data | |
|--|---|
| Dimensions (W x H x D) | 173.2 x 95.5 x 21.6 mm for POL871.71 173.2 x 95.5 x 33.1 mm for POL871.72 |
| Materials and colors | Lens: Makrolon 2405, transparent Keyboard: Silicone rubber, RAL7035 Housing: Front: Makrolon 6485, RAL7035 Rear: Makrolon 6485, RAL5014 |
| Without packaging | 350 g for POL871.71 221 g for POL871.72 |
| Weight (with packaging) | 433 g for POL871.71 371 g for POL871.72 |
| Panel thickness restriction for POL871.72 installation | Min. 0.5 mm Max. 1.5 mm |

| Power supply | |
|-----------------------------|----------------|
| Power supply via controller | DC 24 V, 60 mA |

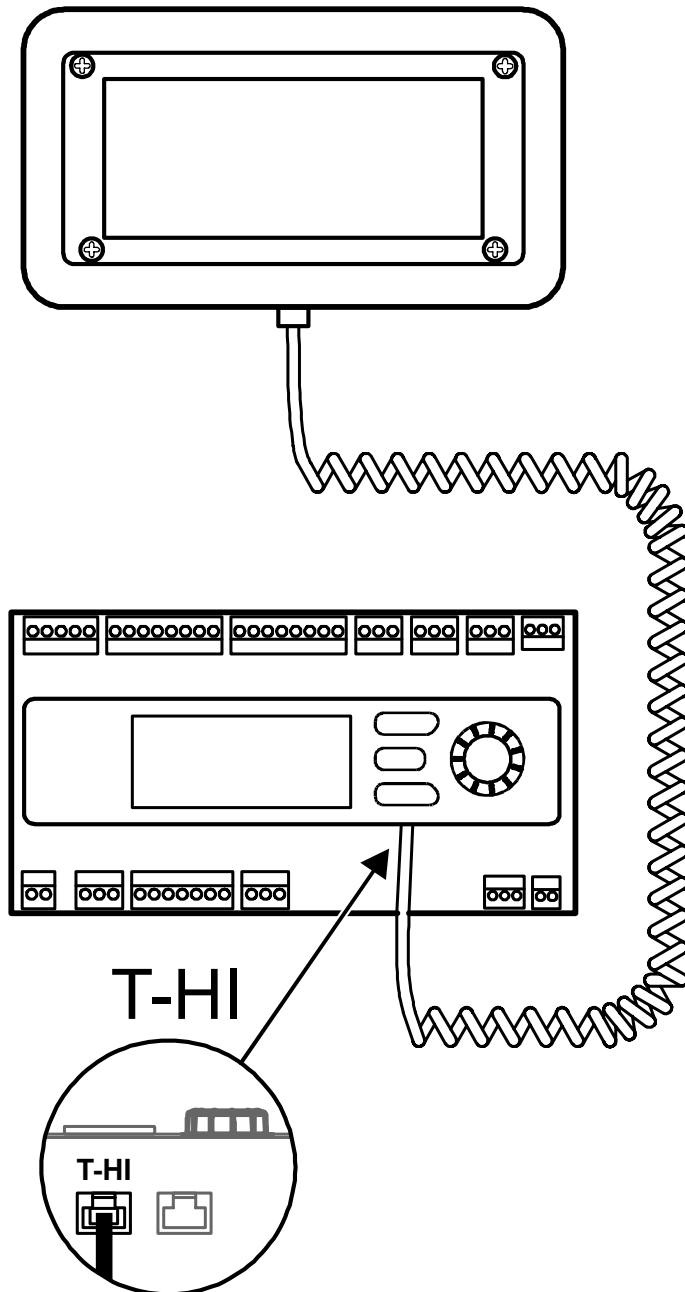
| Display | |
|--|----------------------|
| LCD type | STN blue, negative |
| Resolution | Dot-matrix 240 X 128 |
| Backlit display | White LEDs |
| Size | |
| LCD size | 93 x 58 mm |
| Display Size | 86.15 x 47.78 mm |
| Viewing angle ¹⁾ | |
| From above | 41° |
| From below | 21° |
| ¹⁾ The viewing angle corresponds to the angle at a contrast ratio that is greater than 2. | |

| Ambient conditions and protection classification | |
|--|--|
| Classification as per EN 60730 Degree of pollution | 2 |
| Protect against shock | Protection class III |
| Degree of protection of housing to EN 60529 | IP65 for entire POL871.71 IP65 for front of POL871.72 (use fasteners for assembly) IP20 for rear of POL871.72 |
| Climatic ambient conditions <ul style="list-style-type: none"> • Transport and storage (packaged) Per IEC/EN 60721-3-2 / -3-1 | <ul style="list-style-type: none"> • Temperature -40...+70 °C (-40...+158 °F) • Air humidity 5...95 % (non-condensing) • Min. air pressure of 260 hPa, corresponding to max. 10,000 m above sea level |
| <ul style="list-style-type: none"> • Operation per IEC/EN 60721-3-3 | <ul style="list-style-type: none"> • Temperature -40...+70 °C (-40...+158 °F) • On LCD: Temperature limitation -20...60 °C ! • Air humidity 5...95 % (non-condensing) • Min. air pressure 700 hPa, corresponding to max. 3,000 m above sea level. |

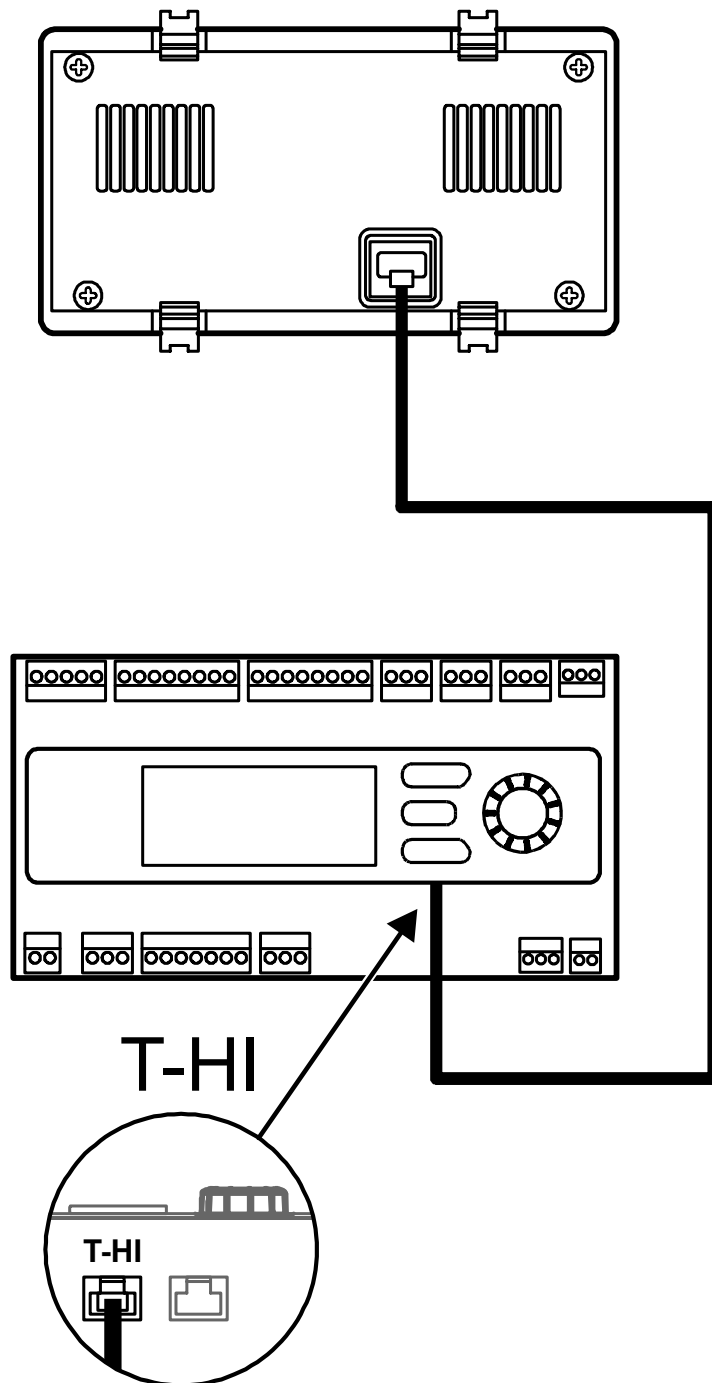
| Standards, directives and approvals | |
|-------------------------------------|---|
| Product standards | IEC/EN 60730-1 Automatic electronic controls for household and similar use |
| Electromagnetic compatibility | For residential, commercial, and industrial environments |
| EU conformity (CE) | CB1T3917xx |
| UK compliance (UKCA) | A5W00192704A |
| RCM Conformity | CB1T3917en_C1 |
| UL certification FCC | cUL916, UL873, http://database.ul.com CFR 47 part 15 B. (devices without WLAN/RF) |
| Environmental compatibility | Environmental Declarations 233006-T-0601_EN (POL871.71/STD) and 233006-T-0602_EN (POL871.72/STD) contain data on environmental-compatible product design and assessment (RoHS compliance, compositions, packaging, environmental benefits and disposal).. |

Local HMI connection

| POL871.71 | |
|------------------------------|--|
| Connection | Cable in HMI-TM 1 RJ45 port on the controller |
| Cable length on the HMI side | 2.5 m expandable spiral cable (1 m flat + 1.5 m expandable spiral cable) |
| Cable type | Integrated cable with RJ45 plug (4-wire twisted pair) |



| POL871.72 | |
|------------------------------|---|
| Connection | Cable with RJ45 plugs on both sides |
| Cable length on the HMI side | 1.5 m |
| Cable type | A separate Cat-5 Ethernet cable with two RJ45 plugs (8-wire twisted pair) |



Ordering

| Type | Stock number | Designation |
|---------------|------------------|---|
| POL871.71/STD | S55626-H517-B100 | HMI-TM for magnetic mounting and mobile operation |
| POL871.72/STD | S55626-H517-C100 | HMI-TM for mounting in control panels |

Scope of delivery

| Type | Contents |
|---------------|---|
| POL871.71/STD | <ul style="list-style-type: none">• One HMI-TM• With 4-wire twisted pair spiral cable, with one RJ45 plug• Total cable length 2.5 m (1 m flat, 1.5 m spiral when extended) |
| POL871.72/STD | <ul style="list-style-type: none">• One HMI-TM• Separate 1.5 m Cat-5 Ethernet cable (8-wire twisted pair), with two RJ45 plugs• Two terminals with screws (for assemblies requiring IP65) |

Product documentation

| Document ID | Title | Topic |
|-------------|--|---------------------------|
| Q3900 | Climatix range | Climatix product range |
| M3910 | Mounting instructions for POL871.xx | Mounting and installation |
| P3917 | "Climatix HMI application", Basic document | Basic documentation |

Notes

Safety: National safety regulations

CAUTION



National safety regulations

Failure to comply with national safety regulations may result in personal injury and property damage.

- Observe national provisions and comply with the appropriate safety regulations.

Engineering notes

NOTICE



Design to SELV per EN 60730-1. Use caution when wiring to protect against accidental contact with other parts when energized above 42 V_{eff}.

Disposal

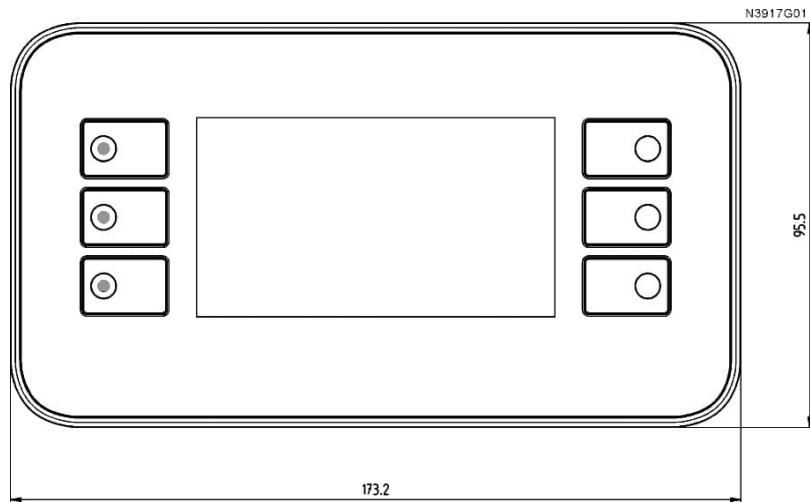


This symbol or any other national label indicate that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national legislation.

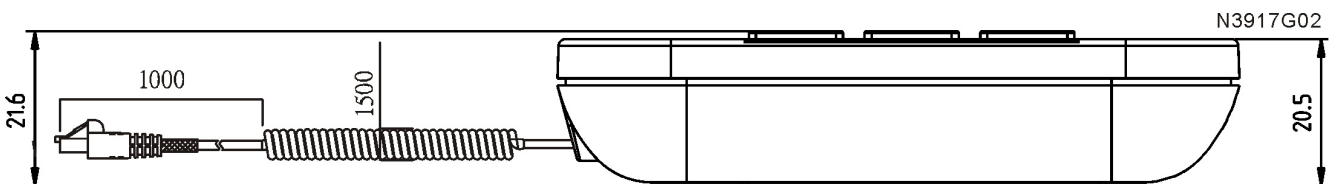
For additional details, refer to [Siemens information on disposal](#).

Dimensions

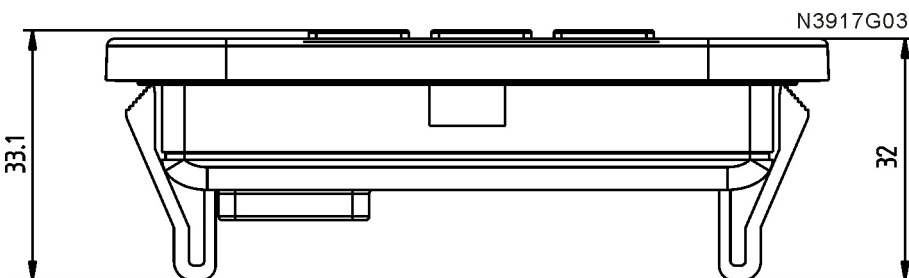
Dimensions in mm



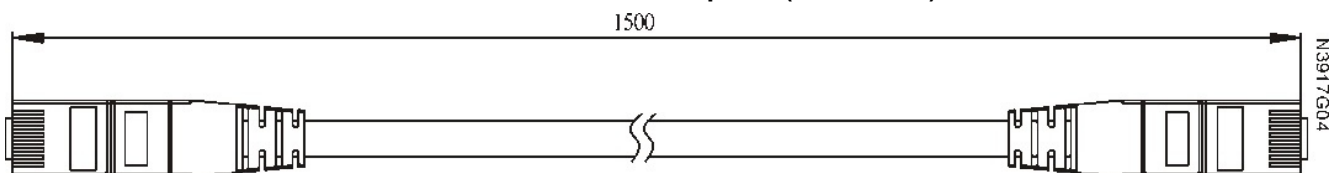
POL871.71



POL871.72



Cable for mounted version in control panel (POL871.72)



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