

Installation guide

• 

---

**IP201**



# Contents

---

1	Montage	3
2	Anschluss	3
3	Konfiguration	3
4	Ethernet-Anschluss	4
5	Installation	5
6	Platzierung von Leuchtdioden (Ausschnitt des Moduls)	6
7	Status-Leuchtdioden	6
7.1	Action	6
7.2	Wink	6
7.3	Err	6
7.4	Wartungstaste	7
8	Port B	7
9	Modulübersicht	7

# 1 Mounting

---

Typically, the module is supplied mounted directly in RF Concentrator or similar equipment.



Example of mounting in RF Concentrator

# 2 Connection

---

The IP201 module has no built-in encryption, and therefore it should always be placed behind a firewall or NAT (Network Address Translation).

# 3 Configuration

---

The IP201 module is always supplied configured with either default IP settings or custom IP settings. These settings can be changed subsequently by using **IP Tool**, which can be obtained by contacting Kamstrup.

It is possible to use either dynamic or static IP addresses, and it is possible to order with the following settings:

**Dynamic IP address (DCHP):**

Host server name *(the DNS name or IP address of the server to which the unit must report back)*.

**Static IP address:**

IP address, subnet, gateway *(network settings of the module)*.



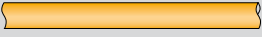

Host server *(the IP address of the server to which the device must report back)*.

## 4 Ethernet connection



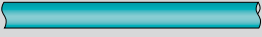

---

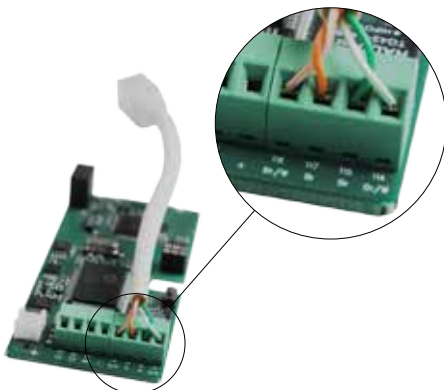
The Ethernet connection on IP201 consists of a standard 4-pole screw terminal.

### Connection to switch, router or hub:

Terminal block No. on the PCB	T-568B Colour code	
114	Green / White	
115	Green	
117	Orange	
116	Orange / White	

### Connection to PC:

Terminal block No. on the PCB	T-568B Colour code	
114	Green / White	
115	Green	
117	Orange	
116	Orange / White	



Ethernet connection

## 5 Installation

---

When supply has been established, the Err and Wink diodes are lit to indicate that the module is switched on. The Link diode lights/flashes if the RJ45 cable is mounted (communication on the network is indicated by flashes).

During start-up, the Err and Wink diodes are used for controlling the state of the module:

- 1 Err and Wink emit light constantly: The module has just started.
- 2 The Wink diode turns off when the module has established connection to the network (valid IP).
- 3 The Err diode starts flashing when the host is recognised (meter or concentrator have been detected).
- 4 The Err diode turns off when the module has been registered by the collecting server.

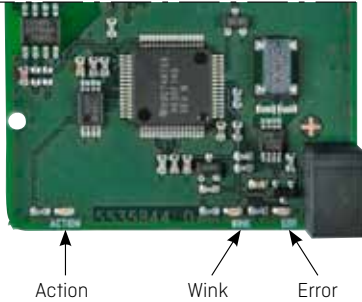
If the module cannot connect to the meter and/or server, IP201 will restart.

Start-up		ACT/LINK	WINK	ERR
Power UP		Off	On	On
LAN connection		On/flash	-	-
		↓ ~3 sec (depending on DHCP srv), ~0 sec if static IP is used.		
Valid IP		On/flash	Off	On
		↓ 15-20 sec.		
Host recognised (meter/conc)		On/flash	Off	Flash
		↓ 20 sec (depending on AMR system).		
Ack from server		On/flash	Off	Off

Ethernet connection		ACT/LINK	WINK	ERR
No Ethernet		Off	-	-
LAN OK – idle		On	-	-
LAN OK –data activity		Flash	-	-

## 6 Localization of light-emitting diodes (extract of the module)

---



## 7 Status LEDs

---

The module has a number of light-emitting diodes. They are used for indicating the status and service.

### 7.1 Action

The Action diode indicates network activity. During normal operation, this diode lights/flashes.

Turned off: The module does not connect to the network. Check that the cable is connected correctly.

Flashing: Data is detected on the network. [the faster the flashing, the more traffic].

Steady light: The module is connected, but there is no traffic on the network.

### 7.2 Wink

The Wink diode is used for indicating the module's conditions in three situations:

Start-up: The Wink diode is lit until a valid IP address is found.

Localization: The Wink diode flashes.

Service: By pressing the service button, the Wink diode is lit. The Wink diode is lit while the module is in service mode.

### 7.3 Err

The Err diode is used for indicating irregularities.

Steady light: The module has just started and is waiting for an IP address.

Flashing: The module has not yet recognised the unit in which it is mounted (the host)

Turned off: Normal situation.

## 7.4 The service button

The service button is used by Kamstrup in connection with service and reprogramming of the module.

# 8 Port B

---

Port B is a serial [RS232/Kamstrup 3-wire] connection that can be used for connecting additional external equipment.

For instance:

- Connection of additional RF concentrator

Port B is always configured for 9600,8,N,1.

# 9 Module overview

---

