Quick Installation Guide



These short operating instructions apply for the following devices of INSYS icom:

- IMON-G100
- IMON-G200
- IMON-U300
- IMON-U310



www.insys-icom.com/manual



It is intended for a quick commissioning by the operator. Refer to the associated manual for further information. This and other associated manuals can be found on our website in the menu Support and Downloads > Documentation. Scan the QR code above or enter the URL into your web browser.

Defects liability terms

A use other than the intended use, an ignorance of the safety instructions and the documentation, the use of insufficiently qualified personnel as well as unauthorised modifications exclude the liability of the manufacturer for damages resulting from this. The liability of the manufacturer ceases to exist.

Intended Use

The product may only be used for the purposes specified in the function overview of the manual. In addition, it may be used for the following purposes:

- Usage and mounting in an industrial cabinet.
- Switching and data transmission functions in machines according to the machine directive 2006/42/EC.
- Usage as data transmission device, e.g. for a PLC.
- The product may **not** be used for the following purposes and used or operated under the following conditions:
 - Use, control, switching and data transmission in machines or systems in explosive atmospheres.
 - Controlling, switching and data transmission of machines, which may involve risks to life and limb due to their functions or when a breakdown occurs.

Technical Boundaries

Max. line length for antennas, power supplies, inputs and outputs as well as other signals: 30 m

Max. line length of serial connection lines: 3 m

Cable cross-section: 0.25 ... 2.5 mm², flexible lines require end sleeves

Support

If you need further support, please contact your sales partner or INSYS icom support. You can contact our support department via e-mail under support@insys-tec.de.

Technical Data

The product is only intended for the use within the permissible technical limits specified in the data sheets. These limits must be observed.

Operating voltage	12 V 24 V DC (±20%)	GSM/GPRS frequencies (2G)	850, 900, 1800, 1900 MHz (G100/200) 900, 1800 MHz (U300) 850, 1900 MHz (U310)
Power consumption	typ. 1.0 W, max. 3.0 W	UMTS/HSPA frequencies (3G)	900, 2100 MHz (U300)
			850, 1900 MHz (U310)
Level inputs	HIGH level = 3 12 V	Real-time clock (RTC) buffer time	typ. 2 days
	LOW level = 0 1 V		
	Contact open condition: HIGH		
Current consumption input at	max. 0.5 mA when	Temperature range	-30 °C 70 °C
LOW potential	connecting to GND		(80 °C restricted)
Digital output (changeover relay), max. switch voltage	30 V (AC/DC)	Maximum permissible humidity	95% non-condensing
Digital output (changeover	1 A (DC) / 0.5 A (AC)	IP rating	Housing IP40
relay), max. current load	(resistive load)		Connectors IP20

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Router connection 1. Connect antenna 2. Insert SIM card (**no** power supply must be connected!) Α 3. Connect supply voltage (12 V ... 24 V DC (±20%)) to the terminals 12...24 V and GND 4. Connect router (LAN) to the configuration PC via Ethernet cable LAN settings of configurations PC (Windows 7) If a DHCP client is active on the PC, proceed with step C. Otherwise, either enable the $\mathbf{\hat{I}}$ DHCP client or configure a static IP address. Open Network and Sharing Center (e.g. **P** key and search for "sharing") 5. 6. Select LAN connection and Properties 7. Select Internet Protocol Version 4 (TCP/IP) and Properties Enable DHCP client **Configure a static IP address** Β 8. Obtain an IP address automatically Use the following IP address (example): 1 It is recommended to unplug the IP address: 192.168.1.2 network cable briefly and plug it 255, 255, 255, 0 Subnet mask: again upon activation of the DHCP Standard gateway 192.168.1.1 client. 192.168.1.1 Preferred DNS server: Please note the previous values before $\mathbf{\hat{I}}$ changing the TCP/IP settings to be able to restore them later. Web interface access 9 Enter IP address of the router in address bar of the browser (default: 192.168.1.1) $\hat{\mathbf{I}}$ If a proxy server is enabled in your browser, this must be disabled or the IP address of the router must be added as exception. С

10. Login with User name (default: **insys**) and Password (**icom**)

- All modified data will only be transmitted to the router after $\mathbf{\hat{I}}$ clicking the OK button.
- Refer to the header and display the help text to get helpful 1 Pisplay help text information about the individual parameters in the web interface.

OK

Confirm all

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	Cor	figuration as Internet Router				
	Ū	If the router is in delivery state or has been re option Fast start after reset to default settings	set to factory defaults, the configuration appears upon login.			
	11. 12	Enter PIN of the SIM card	Quick start with factory settings			
	12.	authentication with the provider (must not be empty)	PIN			
	13. Enter Access Point Name (APN)	Dial-Out Caller number *99***1#				
D	(j)	These data can be found in the contract	Password password			
		documents of your SIM card or can be requested from the provider. The APNs of	Access Point Name			
		popular providers can be displayed by				
	clinging on ?.					
	Û	Customer name and device code must only be entered, if the router is to be configured for the icom Connectivity Suite - VPN (https://connectivity.insys-icom.de).				
	14.	Confirm settings with OK				
	The COM LED is illuminated green during connection establishment and oran					
		soon as an internet connection is established. If a connection to the icom Connectivity Suite - VPN is configured, the Status LED				
		will light up green as soon as it is established.				
	Cor	ifiguration of access data				
	Û	User name and password for web interface access must be changed to prevent a manipulation of the configuration by unauthorised persons.				
Е	 Menu Basic Settings > Web interface: Enter user name and password for authentication with password 					
	16.	Confirm settings with OK				
	Û	A typo during entering or forgetting the configured access data makes the router inaccessible until resetting it to default settings.				

All essential configuration steps are completed with this. Further configuration depends on your specific application. Other frequently required settings are available on the following page.

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IP Address in Local Network

- The IP address of the router in the local network does only have to be changed, if the IP address is already used or a different address range is required.
- 1. Menu Basic Settings > IP address (LAN): Adjust IP address of the router in local network
- 2. Confirm settings with OK
- 3. Adjust IP settings of the PC for further configuration accordingly, if these are not obtained automatically (see step B)
- 4. Menu Server services > DHCP: Adjust address range to the local IP network, if it was not possible to adjust this automatically

Resetting the router

- If it is necessary to reset the router during configuration, this is possible without losing the settings.
- 1. Menu System > Reset: Select Reset
- 2. Confirm settings with OK
- Alternatively, press reset key on the device front once for a short time (soft reset)

Resetting the router to default settings

- If the router is to be reset to default settings (if the router has already been used for example), it can be reset to delivery state.
- 1. Menu System > Reset: Select Load default configuration and reset
- 2. Confirm settings with OK
- Alternatively, press reset key on the device front three times for a short time within 2 seconds

Resetting and initialising the router

- If the router is not available any more for any reason, it can be reset and initialised (settings do not get lost).
- 1. Press reset key on the device front for at least 3 seconds (hard reset)



Configuration Guides and manuals for integrating your product into your application are available in the menu Support and Downloads http://www.insys-icom.com/support



For interesting information about your product refer to our website in the menu Knowledge Base http://www.insys-icom.com/knowledge

Hereby, INSYS Microelectronics GmbH declares that herein described device types are in compliance with Directives 2014/53/EU and 2011/65/EU. The full text of the EC Declaration of Conformity is available under www.insys-icom.com/manual.

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