

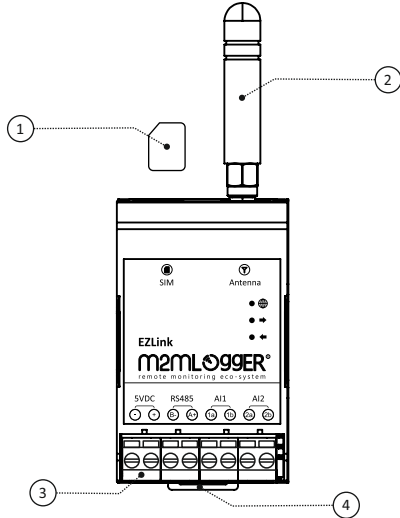
**EZLink RTU**  
Installation Manual

Version 1.1

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**CONNECTIONS**



#	Description
1	Micro SIM
2	GPRS Antenna
3	Terminals
4	DIN Snap-on foot

**MOUNTING**

**A**

**B**

Mounting

- Place the device onto a grounded 35 mm DIN rail from above so that the upper housing slot hooks onto the top edge of the DIN rail (A).
- Press the device carefully at the top of the housing towards the mounting surface.
- Once the snap-on foot has audibly snapped onto the DIN rail, check whether it is securely attached.

Removal

- Use a suitable screwdriver to release the locking mechanism on the snap-on foot of the device (B).
- Hold the device at the housing cover and carefully tilt it upwards.
- Carefully lift the device off the DIN rail.

**SMS COMMANDS**

**1. DEVICE DETAILS**

This command is used to query the Device profile details: Model, Firmware version, Serial no., IMEI, IMSI, Service Provider Name (SPN), APN, Signal Strength (RSSI).

Query

STATUS?

Response format

```
[MODEL] [(FIRM_VER)]
[SERIAL]
[IMEI]
[IMSI]
[SPN], [APN]
[CSQ]
```

[MODEL]	EZLink Model	String
[FIRM_VER]	EZLink Firmware Version	String
[SERIAL]	EZLink Serial number	String
[IMEI]	International Mobile Station Equipment Identity	Decimal
[IMSI]	International Mobile Subscriber Identity	Decimal
[SPN]	Service Provider Name	String
[APN]	Access Point Name	String
[CSQ]	Signal Strength RSSI level	Decimal

Example response

EZLinkRTU (v 1.0)

```
SL: XXXXXXXXX
IMEI: XXXXXXXXX09481
IMSI: XXXXXXXXX41073
SPN : Vodafone, APN : www
RSSI: 25
```

**2. GPRS SETTINGS**

This command is used to set/query GPRS settings to the device, required for GPRS connection. Device contains list of pre-configured APN's for known service providers. Manual APN settings can also be provided to override default settings.

Set

SETTINGS-GPRS: [APN], [UID], [PWD],		
[APN]	GPRS Access Point Name	String
[UID]	GPRS User Id	String
[PWD]	GPRS Password	String

Response

For Valid settings

SETTINGS SAVED

For Invalid settings

SETTINGS INVALID

Query

SETTINGS-GPRS?

Response format

[APN], [UID], [PWD],

Example

gprs:www,,

**3. IO MAPPING SETTINGS**

This command is used to set/query the IO Mapping details.

Set/Update

```
IO-MAPPING-
[INDEX]: [NAME], [UNIT], [PREC], [DT], [CHT], [CMD], [SCL], [ZPV],
[ZSV], [SPV], [SSV],
```

[INDEX]	Position of parameter in IO Config. 0: Analog Input 1 1: Analog Input 2	Decimal
[NAME]	Parameter Name	String
[UNIT]	Parameter Unit	String
[PREC]	Parameter precision (Default: 2)	Decimal
[DT]	Data Type short: Integer 16 bit	String
[CHT]	Channel Type ai: Analog Input	String
[CMD]	Channel Command For [CHT] = "ai": [CMD] is used to select the analog input channel. Range 0 to 1	Decimal
[SCL]	Scaling relation nul: No Scaling lnr: Linear two-point scaling	String
[ZPV]	Zero Process Value	Decimal
[ZSV]	Zero Scaled Value	Decimal
[SPV]	Span Process Value	Decimal
[SSV]	Span Scaled Value	Decimal

Response

IO MAPPING SAVED! MEM RESET!

Valid IO Mapping Response

IO MAPPING SAVED! MEM RESET!

Invalid IO Mapping Response

INVALID FORMAT!

Example: Analog Input

IO-MAPPING-0:A1, mA, 2, short, ai, 0, lnr, 0, 0, 1000, 100,

#### Query

IO-MAPPING- [INDEX]?

Response format

[NAME], [UNIT], [PREC], [DT], [CHT], [CMD], [SCL], [ZPV], [ZSV], [SPV], [SSV],

Valid Index Response

A1, A, 2, short, ai, 0, lnr, 0, 0, 1000, 100,

Invalid Index Response

INVALID PARAMETER!

Example

IO-MAPPING-0?

#### 4. SCANNING LOOP INTERVAL

This command is used to set/query the Scanning Loop Interval of the device.

Note: Loop Time is in seconds

Example: Loop Time = 300, to scan data every 05 minutes (05x60)

Loop Time = 600, to scan data every 10 minutes. (10x60)

#### Set

SETTINGS-loop: [LOOP\_TIME],

[LOOP\_TIME] Scanning Loop interval Decimal

Response

SETTINGS SAVED

Example

SETTINGS-loop: 300,

#### Query

SETTINGS-loop?

Response format

loop: [LOOP\_TIME],

Example response

loop: 300,

#### 5. FTP SETTINGS

This command is used to set/query the FTP account details on which file will be uploaded.

#### Set

SETTINGS-FTP: [URL], [PORT], [UID], [PWD], [DIR], [MODE],

[URL] FTP Server address String  
[PORT] FTP Server Port Decimal  
[UID] FTP account user name String

[PWD] FTP account password String  
[DIR] FTP remote file upload directory String  
[MODE] FTP file upload mode String  
app: Append to existing file.  
new: Create New file.

#### Response

For Valid settings

SETTINGS SAVED

For Invalid settings

SETTINGS INVALID

Example

SETTINGS-ftp:files.host.com, 21, acct, password, "/Data/", app,

#### Query

SETTINGS-FTP?

Response format

ftp: [URL], [PORT], [UID], [PWD], [DIR], [MODE],

Example response

ftp:files.host.com, 21, acct, password, "/Data/", app,

#### 6. MEMORY RESET

This command is used to reset the memory read / write pointers.

Note: If IO Mapping is changed, we should perform MEMRESET.

Format

MEMRESET

Response

DONE!

#### 7. REBOOTING THE DEVICE

This command is used to reboot the device.

Format

RESET

Response

Upon receiving RESET message from Server, EZLink device restarts. There is no reply to this message.

#### LED INDICATIONS

Status	Description
Solid	In configuration mode
Blink every 1 sec	GPRS network registered
Blink every 200ms	Data transmission to server.

## TROUBLESHOOTING GUIDE

### 1. SIM IS WORKING IN PHONE BUT NOT IN EZLINK

Cause 1: EZLink was power was ON while inserting the SIM.

Solution: EZLink needs to be serviced at M2MLogger

Cause 2: SIM card is not inserted properly.

Solution: Power off EZLink, eject the SIM and clean SIM contacts.

Cause 3: 2G network is not available.

Solution: Check with a SIM of different Service Provider with a working 2G network in area.

Note: For SIM detection in EZLink call on the phone number and wait for ringing tone.

### 2. DATA IS COMING AS N.A.

Cause: Due to over and under scaling of analog input.

Solution: Manually check the 4-20mA at the site and adjust the scaling accordingly.

### 3. DATA PLAN IS THERE IN THE SIM, BUT FILES ARE NOT UPLOADING TO SERVER

Cause 1: Wrong FTP configuration

Solution: Check the spelling or unwanted spacing in the FTP configurations

Cause 2: Memory Issue

Solution: Reset memory using MEMRESET SMS command.