

RainWise to Modbus IP bridge with Web interface



Description

The SMI-1000 is a rail mount module allowing access to the instantaneous values of the Rainwise weather station using the MKIIIC Computer Interface.

The SMI can view the readings from a Modbus IP server. The instantaneous, minimum and maximum values can be read by accessing the data table.

A Web interface allows for configuring the module. Ethernet hub or switch is required to make configuration.

Specifications

CHARACTERISTICS	MIN.	UNIT
Supplies voltage	9 - 30	Vdc
Supplies current	55 nom. 330 peek	mA
Serial communication pre-configured MKIIIC		
Ethernet communication	10 Base-T, RJ-45	
Default IP address	192.168.40.254	

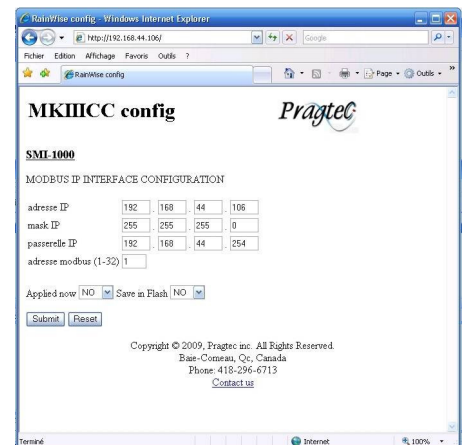
Note : Pragtec inc. reserves the right to change the technical characteristics of the device at any time.

Configuration

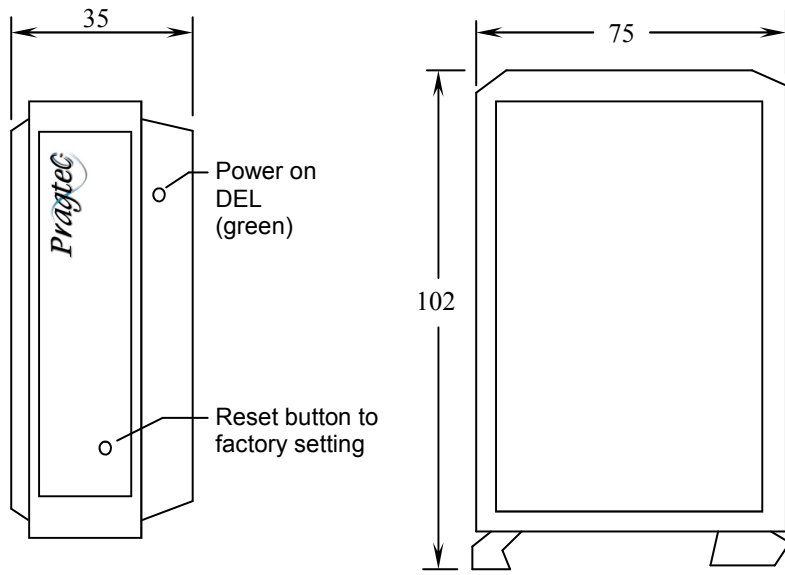
The "RST" button allows to reset the module to factory default settings.

The momentary activation button resets communication parameters to their factory values.

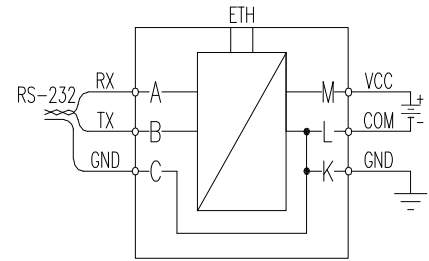
To configure Modbus communication module, connect it to a PC using a 10/100 base-T Hub or Switch. Launch a web browser (like "Internet Explorer") and enter the module IP address into the address bar. The web configuration page opens. Enter the new settings, select YES to options "Applied Now" and "Save Flash" then press the "Submit" button.



Dimensions (mm)



Wiring



Data table Modbus address

Value are 16 bits integers.

Address	Description	Range	Unit
40001 to 40048	reserved	-	
40049	Month	1-12	month
40050	Day	1-31	day
40051	Hours	0-23	hours
40052	Minutes	0-59	minutes
40053	Second	0-59	second
40054	Temperature	-66 - 166	°F
40055	Humidity	0-100	%
40056	Barometer (hi)	16-32	inHg
40057	Barometer (low)	00-janv	0,01 x inHg
40058	Wind direction	0-360	°
40059	Wind speed	0-150	mph
40060	Max wind speed	0-150	mph
40061	Rainfall (hi)	00-janv	inch
40062	Rainfall (low)	00-janv	0,01 x inch
40063	Battery voltage (hi)	00-janv	V
40064	Battery voltage (low)	00-janv	0,01 x V
40065	Wind chill	0 to -188	°F
40066	Hours of min. temperature	0-23	hours
40067	Minutes of min. temperature	0-59	minutes
40068	Minimum temperature of day	-66 - 166	°F
40069	Hours of min. temperature	0-23	hours
40070	Minutes of min. temperature	0-59	minutes
40071	Maximum temperature of day	-66 - 166	°F
40072	Hours of min. humidity	0-23	hours

Address	Description	Range	Unit
40073	Minutes of min. humidity	0-59	minutes
40074	Minimum humidity of day	0-100	%
40075	Hours of max. humidity	0-23	hours
40076	Minutes of max. humidity	0-59	minutes
40077	Maximum humidity of day	0-100	%
40078	Hours of min. barometric pressure	0-23	hours
40079	Minutes of min. barometric pressure	0-59	minutes
40080	Minimum barometric pressure (unit)	00-janv	inch
40081	Minimum barometric pressure (dec.)	00-janv	0,01 x inch
40082	Hours of max. barometric pressure	0-23	hours
40083	Minutes of max. barometric pressure	0-59	minutes
40084	Maximum barometric pressure (unit)	00-janv	inch
40085	Maximum barometric pressure (dec.)	00-janv	0,01 x inch
40086	Hours of min. wind speed	0-23	hours
40087	Minutes of min. wind speed	0-59	minutes
40088	Minimum wind speed of day	0-150	mph
40089	Hours of max. wind speed	0-23	hours
40090	Minutes of max. wind speed	0-59	minutes
40091	Maximum wind speed of day	0-150	mph
40092	Hours of min. wind chill	0-23	hours
40093	Minutes of min. wind chill	0-59	minutes
40094	Minimum wind chill of day	0 to -188	°F
40095	Hours of max. wind chill	0-23	hours
40096	Minutes of max. wind chill	0-59	minutes
40097	Maximum wind chill of day	0 to -188	°F