

iView HMI - BACnet MSTP

Tutorial



HMI solutions **you can view**

Table Of Contents

INTRODUCTION.....	3
BACnet SETTING.....	4
HMI SETTING.....	5
PLC DEVICE LIST.....	6
LINK DIAGRAM.....	7

Information in this document is subject to change without notice and does not represent a commitment on the part of IMO Precision Controls Ltd.

Introduction

This document illustrates the procedure to connect the BACnet controller and configure the communication link in HMI.

(This document use Automated Logic, SE6104a Controller for test)



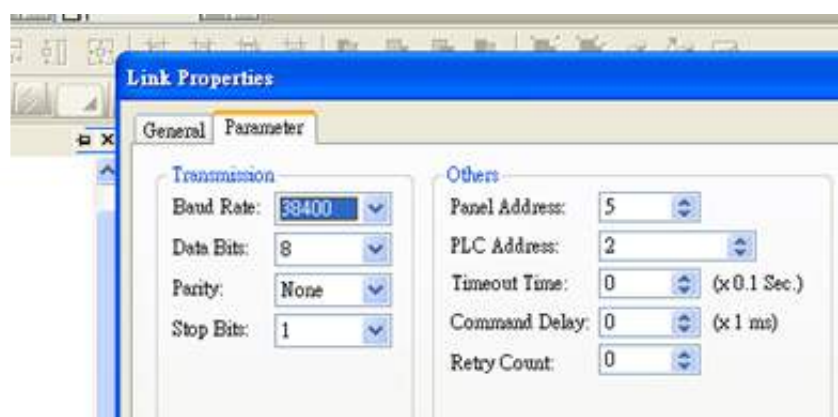
BACnet Setting

1. Module Address Setting:

- To adjust address switch (NOTE: PLC address is the hardware ID of BACnet equipment, not software ID).

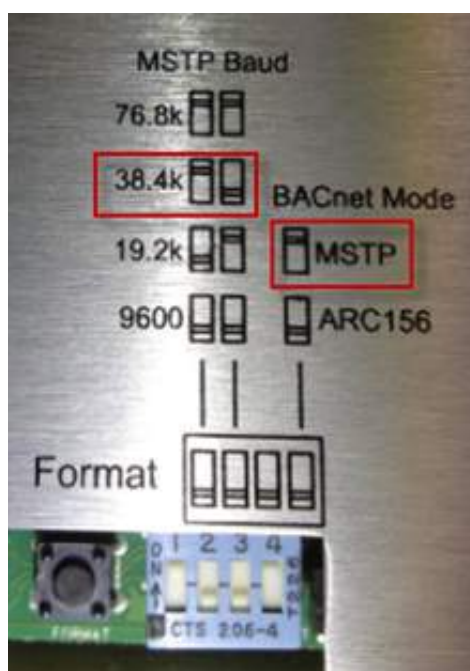


Internal Memory
 Link1
 Tags
 Sound Table
 Setup
 General Setup
 Command & Status



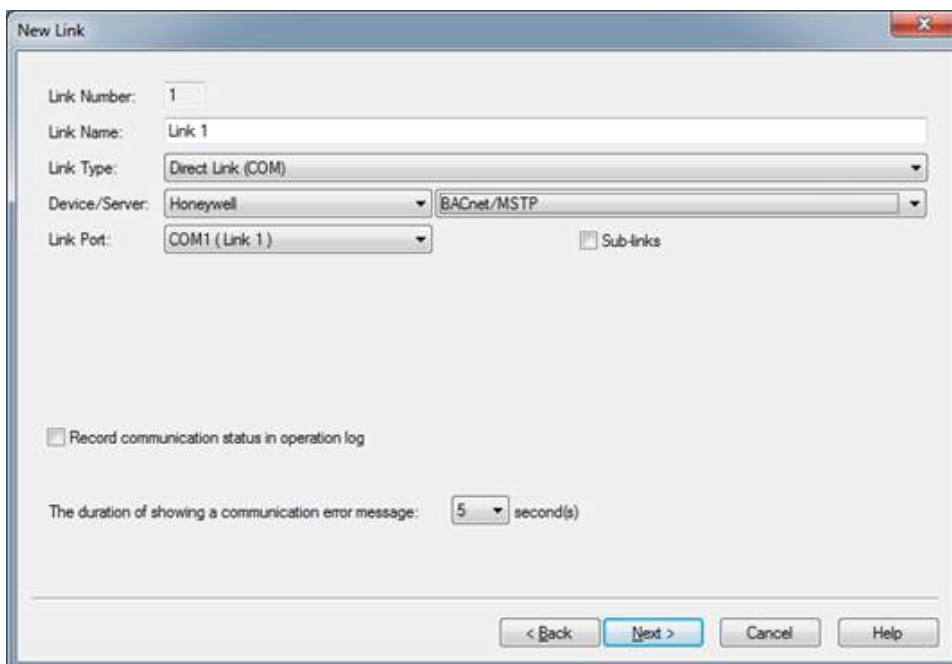
2. Format Setting:

- Set DIP according to each brand of machine
 Baud rate: 38400 (according to the setting of actual use)
 Mode: MSTP



HMI Setting

1. Choose Device / Server Setting: Honeywell --- BACnet / MSTP Setting

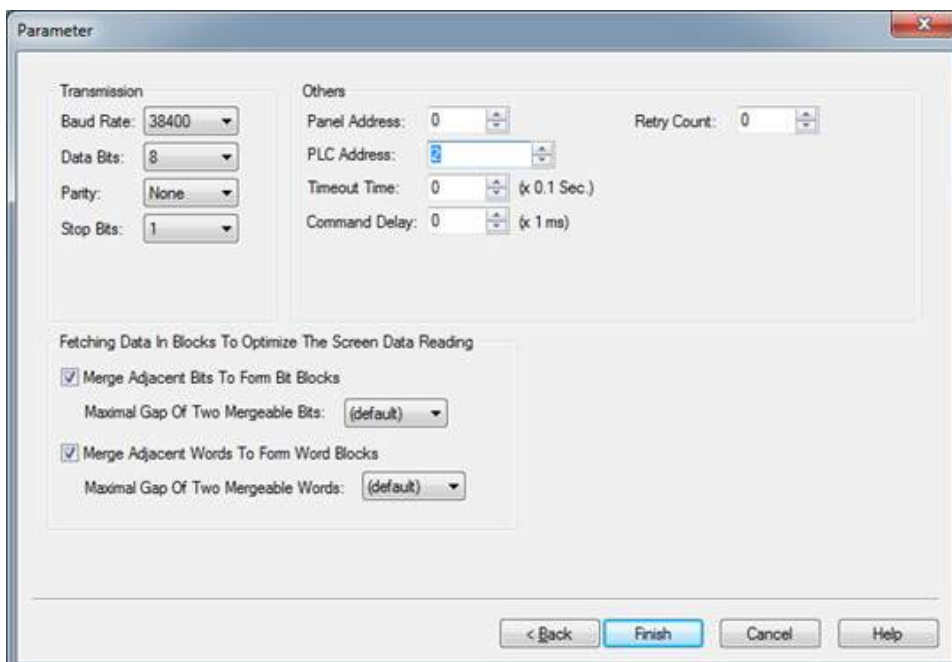


The "New Link" dialog box is used to configure a new communication link. It contains the following fields and options:

- Link Number:** 1
- Link Name:** Link 1
- Link Type:** Direct Link (COM)
- Device/Server:** Honeywell
- Protocol:** BACnet/MSTP
- Link Port:** COM1 (Link 1)
- Sub-links:** ☐
- Record communication status in operation log:** ☐
- The duration of showing a communication error message:** 5 second(s)

Buttons at the bottom: < Back, Next >, Cancel, Help.

2. Communication Setting (according to hardware switch):



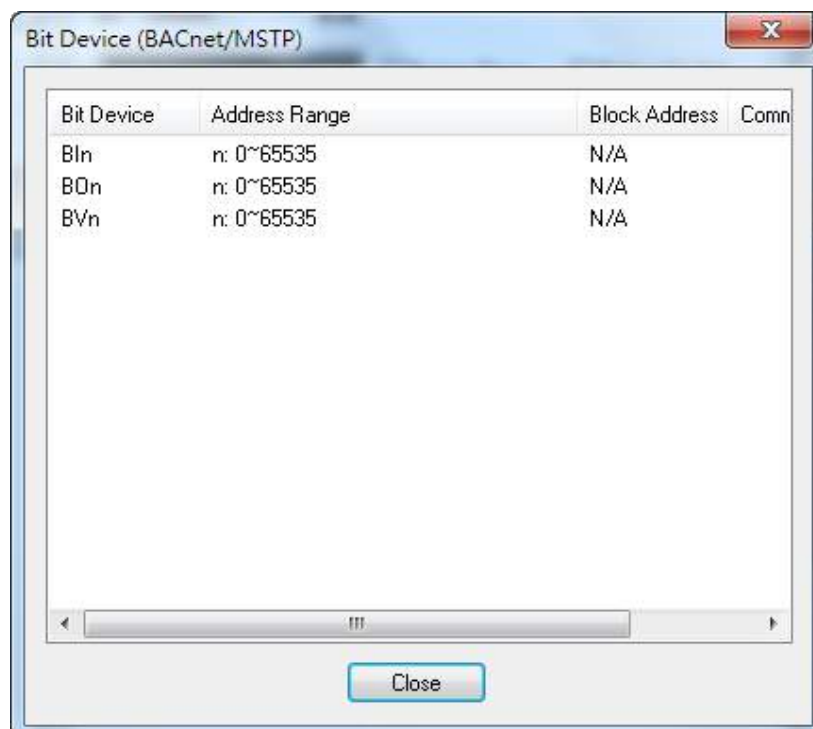
The "Parameter" dialog box is used to configure communication parameters. It contains the following fields and options:

- Transmission:**
 - Baud Rate:** 38400
 - Data Bits:** 8
 - Parity:** None
 - Stop Bits:** 1
- Others:**
 - Panel Address:** 0
 - PLC Address:** 2
 - Timeout Time:** 0 (x 0.1 Sec.)
 - Command Delay:** 0 (x 1 ms)
 - Retry Count:** 0
- Fetching Data In Blocks To Optimize The Screen Data Reading:**
 - ☒ Merge Adjacent Bits To Form Bit Blocks
 - Maximal Gap Of Two Mergeable Bits: (default)
 - ☒ Merge Adjacent Words To Form Word Blocks
 - Maximal Gap Of Two Mergeable Words: (default)

Buttons at the bottom: < Back, Finish, Cancel, Help.

PLC Device List

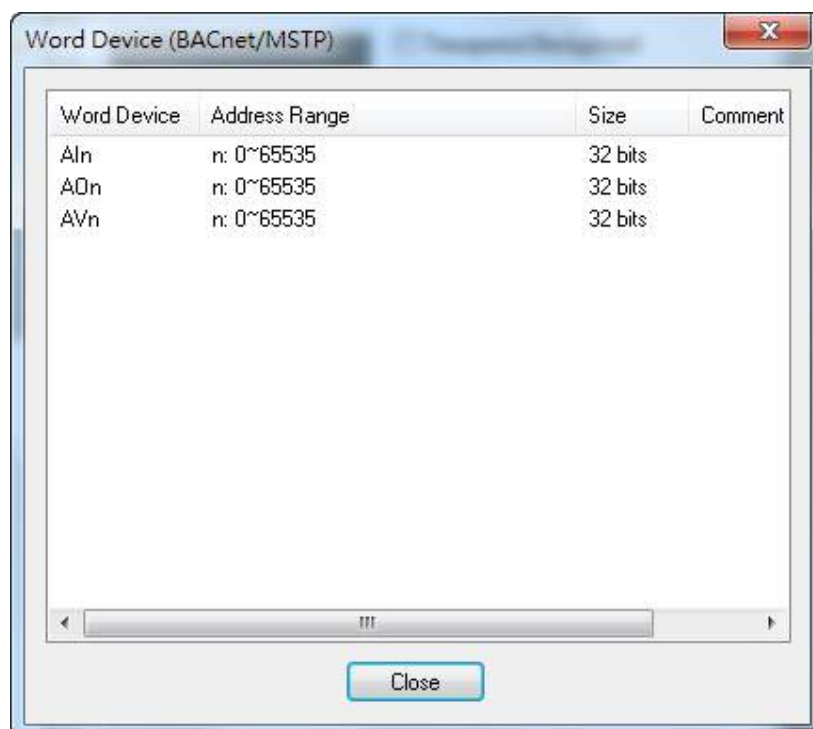
Bit Devices:



The screenshot shows a software window titled "Bit Device (BACnet/MSTP)". It contains a table with four columns: "Bit Device", "Address Range", "Block Address", and "Comment". The table lists three entries: "BIn", "BOIn", and "BVIn", each with an address range of "n: 0~65535" and a block address of "N/A". A "Close" button is located at the bottom right of the window.

Bit Device	Address Range	Block Address	Comment
BIn	n: 0~65535	N/A	
BOIn	n: 0~65535	N/A	
BVIn	n: 0~65535	N/A	

Word Devices:

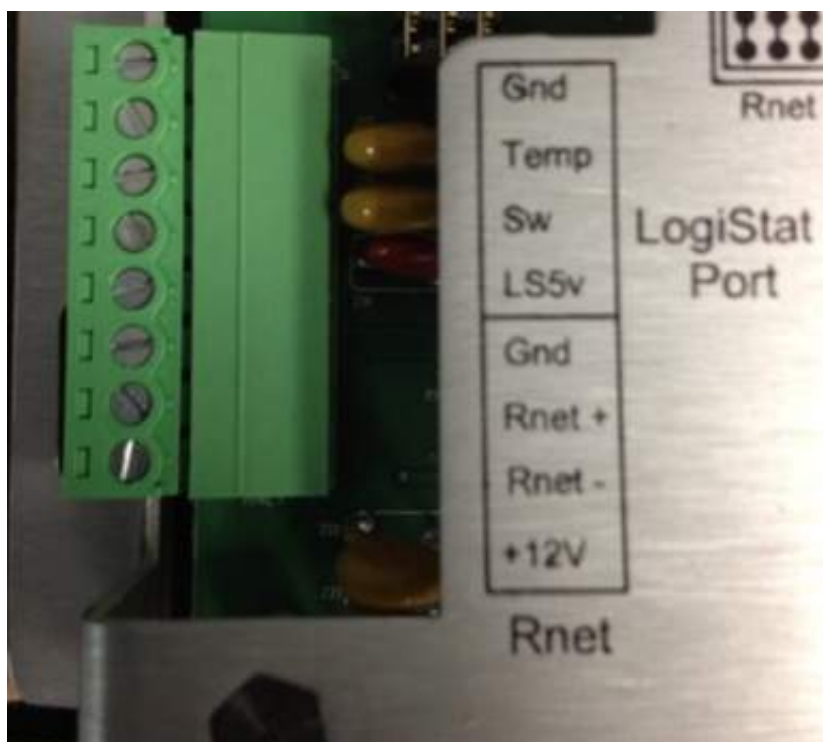


The screenshot shows a software window titled "Word Device (BACnet/MSTP)". It contains a table with four columns: "Word Device", "Address Range", "Size", and "Comment". The table lists three entries: "AIn", "ADIn", and "AVIn", each with an address range of "n: 0~65535" and a size of "32 bits". A "Close" button is located at the bottom right of the window.

Word Device	Address Range	Size	Comment
AIn	n: 0~65535	32 bits	
ADIn	n: 0~65535	32 bits	
AVIn	n: 0~65535	32 bits	

Link Diagram

HMI Com1			BACnet / MSTP	
D-Sub 9pin male				
RS485 +	1	←		Rnet +
	2			Rnet -
	3			
	4			
	5			
RS485 -	6	←		
	7			
	8			
	9			



IMO Worldwide Offices

IMO Precision Controls Limited

1000 North Circular Road
Staples Corner
London NW2 7JP
United Kingdom

Tel: 020 8452 6444
Fax: 020 8450 2274
Email: sales@imopc.com
Web: www.imopc.com

IMO Canada

Unit 32 - B - North
18 Stratheam Avenue, Brampton
Ontario L6T 4Y2
Canada

Tel: 905 799 9237 (local)
Fax: 905 799 0450
Email: sales@imopc.com
Web: www.imopc.com

IMO Russia

Office № 4063
9, Zemlyanoy Val, 105064
Moscow
Russia

Tel: 8 800 100 8540 (toll free)
Fax: 8 800 100 8541
Email: sales@imopc.com
Web: www.imopc.com

IMO Jeambrun Automation SAS

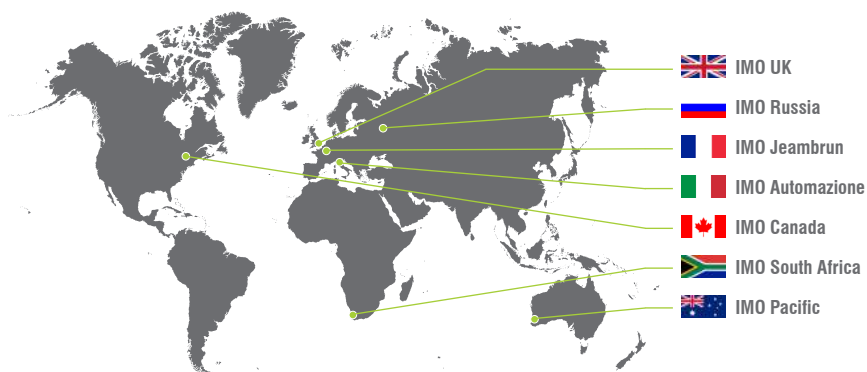
Centre D'Affaires Rocroy
30, Rue de Rocroy
94100 Saint-Maur-Des-Fosses
France

Tel: 0800 912 712 (toll free)
Fax: 0145 134 737
Email: sales@imopc.com
Web: www.imojeambrun.fr

IMO Automazione

Via Ponte alle Mosse, 61
50144 Firenze (FI)
Italia

Tel: 800 930 872 (toll free)
Fax: 8000 452 6445
Email: sales@imopc.com
Web: www.imopc.it



IMO South Africa (Pty) Ltd

G16 Centurion Business Park
Montague Gardens
Cape Town 7441
South Africa

Tel: 021 551 1787
Fax: 021 555 0676
Email: info@imopc.co.za
Web: www.imopc.co.za

IMO Pacific Pty Ltd

1/34 Fallon Road
Landsdale
Perth WA 6065
Australia

Tel: 08 9302 5246 (local)
Fax: 08 9303 9908
Email: sales@imopacific.com.au
Web: www.imopacific.com.au