Red Lion HMI to AKD1G using Modbus TCP Rev A 2/17/2010

This application note demonstrates configuration and addressing for Modbus TCP communications a Red Lion HMI using their Crimson 3.1 software to an AKD1G drive.

The application notes is an example only and the implementation and verification of proper operation of the application and system is the programmer's responsibility.

AKD Modbus TCP Project - CR1	1000-07000 - Crimson 3.1
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Navigation Pane X	Communications - Network
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Communications	Port Settings
Protocol 1 - Modbus T PLC1	Port Mode: Manual Configuration ~
Frotocol 2	IP Address: 192.168.0.3
Frotocol 3	Network Mask: 255.255.255.0
🖃 🖏 Serial Ports	Gateway: 0.0.0.0
■① RS-232 Program Port □ ■① Comms Port	DNS Settings
=0) RS-232 Mode =0) RS-485 Mode	DNS Mode: Automatic V
🖃 🤮 Services	Name Server 1: 8.8.8.8
Time Manager	Name Server 2: 8.8.4.4
	Physical Layer
	Full Duplex: Enabled V
	High Speed: Enabled
< >	Maximum Segment Size
	For Send: 1280
₽¢	For Receive: 1280
🧧 Data Tags	
Display Pages	
Programs	
Data Logger	

AKD Modbus TCP Project - CR1000-07000 - Crimson 3.1

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Navigation Pane X	Communications - Network - Protocol 1
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Communications	
Network	Driver: Modbus TCP/IP Master Pick
🖃 🌠 Protocol 1 - Modbus TCP/IP Master	
PLC1	Port Commands
orotocol 2 Protocol 3 Protocol 4	Class Dark California
🚰 Protocol 3	Clear Port Settings
🚰 Protocol 4	Add Additional Device
🖂 📹 Serial Ports	

Red Lion allows the user to choose high word then low word or low word then high word for word swapping. Note the configuration below selects high word then low word to match the word ordering in the AKD.

Also note the "Ping Holding Register" entry under "Protocol Options". Red Lion requires this to be a valid Modbus address to test the connection. In this case since there is offset the HMI will ping the AKD's Modbus Address 0 (since Red Lion has an offset of 1 with the AKD).

AKD Modbus TCP Project - CR1000-07000 - Crimsor	n 3.1	
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Navigation Pane X	Communications - Network - Protocol 1 - PLC1	Device 1 🕐 🕜
 Kew v Communications Network Protocol 1 - Modbus TCP/IP Master Protocol 2 Protocol 3 Protocol 4 Serial Ports RS-232 Program Port RS-232 Mode RS-485 Mode Services Time Manager OPCWorx Proxy 	Device Settings Enable Device: Yes Device Identification Primary IP Address: 192.168.0.1 Fallback IP Address: 0.0.0 TCP Port: 502 Unit Number: 1 Protocol Options Ping Holding Register: Ignore Read Exceptions: No Link Type: Use Dedicated Socket ICMP Ping: Disabled Connection Timeout: 5000 ms	^
Communications	Transaction Timeout: 2500 ms	
Data Tags	Word Ordering	
See Display Pages	In Long Blocks: High Then Low v In Real Blocks: High Then Low v	

- AKD Modbus TCP Project - CR1000-07000 - Crimson	3.1	
<u>File Edit View Go Link Help</u>		
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Navigation Pane X	Communications - Network - Protocol 1 - PLC1 Connection Timeout: 5000 ms	Device 1 🕐 🙆
Communications Communication	Connection Backoff: 200 🔹 ms Transaction Timeout: 2500 🔹 ms	
PLC1 Protocol 2 Protocol 3 Protocol 4 Serial Ports	Word Ordering In Long Blocks: High Then Low V	
	Register Writes Disable Code 16 (Multiple Words) Disable Code 15 (Multiple Bits) Disable Code 15 (Multiple Bits)	
Time Manager	Frame Register Limits Code 03: 32 • words Code 16: 32 • words Code 01: 512 • bits Code 15: 512 • bits Code 02: 512 • bits Code 04: 32 • words	
	Advanced Settings Spanning Reads: Enabled	
Communications	Transactional Writes: Enabled ~	
Joata Tags	Preempt Other Devices: No ~	
S Display Pages	Favor UI Writes: No V Comms Delay: 40 ms	
Programs	Device Commands	
Data Logger	Delete This Device	

Key Addressing Notes:

- Modbus Address in the Red Lion=AKD + 1 (offset by 1).
- No Manipulation
- Word Ordering->In Long Blocks: High Then Low

Summary of Red Lion to AKD Modbus Addressing

Red Lion								
	AKD Native	AKD Dynamically	AKD Keyword	Red Lion Tag				
AKD Keyword	Address	Mapped Address	Data Type	Name	Red Lion Tag Address	Red Lion Tag Data Type	Read or Write	
PL.FB	2072			PL_FB	402073.LONG	Signed Integer	Read Only	
	2073							
VL.FBFILTER	858			VL_FBFILTER	400859.LONG	Signed Integer	Read Only	
	859							
DRV.EN	258			DRV_EN	400259.LONG	Signed Integer	Write Only	
	259							
DRV.DIS	236	6		DRV_DIS	400237.LONG	Signed Integer	Write Only	
	237	•		_				
MT.ACC_32	2056	i		MT_ACC_32	402057.LONG	Signed Integer	Read and Write	
	2057	•						
DRV.STOP	274	+		DRV_STOP	400275.LONG	Signed Integer	Read and Write	
	275							
MT.V	566	i		MT_V	400567.LONG	Signed Integer	Read and Write	
	567	,						
MT.DEC_32	2058			MT_DEC_32	402059.LONG	Signed Integer	Read and Write	
	2059							
MT.P_32	2060)		MT_P_32	402061.LONG	Signed Integer	Read and Write	
	2061							
MT.CNTL	532			MT_CNTL	400533.LONG	Signed Integer	Read and Write	
	533							
MT.NUM	548			MT_NUM	4000549.LONG	Signed Integer	Read and Write	
	549)						

MODBUS.MT	950		MODBUS_MT	400951.LONG	Signed Integer	Write Only
	951					
SM.MODE	750		SM_MODE	400751.LONG	Signed Integer	Read and Write
	751		_			
SM.V1	758		SM_V1	400759.LONG	Signed Integer	Read and Write
	759		_			
DRV.FAULT1	954	8192	FAULT ARRY	408193.LONG	Signed Integer	Read Only
	955	8193	_			
DRV.FAULT2	956	8194				
	957	8195				
DRV.FAULT3	958	8196				
	959	8197				
DRV.FAULT4	960	8198				
	961	8199				
DRV.FAULT1	954		DRV_FAULT1	400955.LONG	Signed Integer	Read and Write
	955					
HOME.MOVE	408		HOME_MOVE	400409.LONG	Signed Integer	Read and Write
	409					
DRV.CLRFAULT	224		DRV_CLRFAULT	400255.LONG	Signed Integer	Read and Write
	225					

Dynamic Mapping Commands

Edit Macros	1	- O X
Dynamic ma (Macro 1) Macro 2	Name: Dynamic ma	Image: Tell me more
Macro 3		
Macro 4	Commands:	
Macro 5	MODBUS.DYNMAP 1	
	MODBUS.CLRDYNMAP	
	#DELAY 1000	
	MODBUS.ADDR8192 954	
	MODBUS.ADDR8193 955	
	MODBUS.ADDR8194 956	
	MODBUS.ADDR8195 957	
	MODBUS.ADDR8196 958	
	MODBUS.ADDR8197 959	
	MODBUS.ADDR8198 960	
	MODBUS.ADDR8199 961	
	MODBUS.DYNMAP 0	
Import Export	Insert Delay	Close



Tags

PL.FB

From Workbench Help

PL.FB_32	2072	Yes	low 32-bit word, signed

Note the tag's address is offset by 1 for the starting address (2072+1=2073) and the type is LONG for 32 bit.

AKD Modbus TCP Project - CR1000-07000 - Crimson	3.1					
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Navigation Pane X	Data Tags - PL_FB					Tag 0 🕐
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San Data Tags	Data Source					
VL FBFILTER		01.64	402073.LONG		211	
X DRV_EN	Source:	▼ PLC1	402075.LONG		Pick	
DRV_DIS	Extent:	🔻 One Item				
X MT_ACC_32 X DRV_STOP	Manipulation:	None	~			
X MT_V						
MT_DEC_32	Treat As:	Signed Integer	~			
X MT_P_32 MT_CNTL	Access:	Read Only	~			
X MT_NUM	Read Mode:	Entire Array	\sim			
	Storage:	Non-Retentive				
	Storage:	Non-Retentive	\sim			
MODBUS_SM sm_mode	Data Scaling					
X SM_V1	Scaling:	Do Not Scale	~			
FAULT_ARRY	-		*			
X DRV_FAULT1 X HOME_MOVE	Data From:	🔻 General			Edit	
DRV_CLRFAULT	Data To:	🔻 General			Edit	
	Distantes Francis					
	Display From:	▼ General			Edit	
Communications	Display To:	🔻 General			Edit	
Data Tags	Data Simulation –					

ata	s - PL_FB Format	Colors	Alarms	Triggers	Plot	Security			Tag 0 🌘
ata So									
	irce:	▼ PLC	1	402073.1	.ONG		Pi	ick	
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						~	Type: Minimum: Maximum:	Word 400001.LONG 465535.LONG	
	Туре						Radix:	Decimal	
Data									
_	d as Word d as Long					^			

To enter the address select the Pick... button and then configure (format) the address accordingly.

	js - PL_FB										1
ata	Format	Colors	Alarms	Triggers	Plot	Securit	У				
ata L	abels —										
Lat	oel:	Same As	Name					Translate			
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De	scription:										
Cla	ISS:										
ara											
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Mir Ma De ixed (Nu	nimum Valu ximum Valu fault Limits Data Forma	t Der	General omatic	Defau	lt Sign Mo		Hard Sign			~	

VL.FBFILTER

<u>VL.FBFILTER</u>	858	Yes	low 32-bit word, signed

The address is offset by 1 from the Workbench table (858+1=859) and the type is LONG.

AKD Modbus TCP Project - CR1000-07000 - Crimson	3.1							
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Data Tags	Data Source		^					
VL_FBFILTER	Source:	▼ PLC1 400859.LONG	Pick					
X DRV_EN X DRV_DIS	Extent:	▼ One Item						
MT_ACC_32 DRV_STOP	Manipulation:	None						
MT_V	Treat As:	Signed Integer						
X MT_DEC_32 X MT_P_32	Access:							
MT_CNTL								
	Read Mode:	Entire Array 💛						
DRV_ACTIVE	Storage:	Non-Retentive 💛						
sm_mode	Data Scaling							
SM_V1 FAULT_ARRY	Scaling:	Do Not Scale \checkmark						
DRV_FAULT1	Data From:	🔻 General	Edit					
HOME_MOVE DRV_CLRFAULT	Data To:	▼ General	Edit					
	Display From:	▼ General	Edit					
Communications								
₽ ♥	Display To:	▼ General	Edit					
Data Tags	Data Simulation							

Data Tag	s - VL_FBF	ILTER						Tag 1 🕐 (
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MODBUS_MT DRV_ACTIVE MODBUS_SM sm_mode SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE DRV_CLRFAULT	Data From:	Non-Retentive Do Not Scale General General	Edit						
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🥶 New 🔹 🛱 🔀 🖉	Data Format	Colors Alarms Triggers Plot Security	
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DRV_EN CRV_DIS	Extent:	▼ One Item	
MT_ACC_32 DRV_STOP	Manipulation:	None ~	
MT_V MT_DEC_32	Treat As:	Signed Integer 🗸 🗸	
MT_P_32	Access:	Read and Write \sim	
MT_NUM	Read Mode:	Entire Array 🗸	
MODBUS_MT	Storage:	Non-Retentive 🗸	
MODBUS_SM sm_mode	Data Scaling		
SM_V1 FAULT ARRY	Scaling:	Do Not Scale \checkmark	
DRV_FAULT1	Data From:	▼ General	Edit
	Data To:	▼ General	Edit
	Display From:	▼ General	Edit
Communications	Display To:	▼ General	Edit
📮 Data Tags	Data Simulation		

Data Tag	s - MT_V									Tag 5 🔇
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🤓 New 🔹 🕞 🔀 🍌	ø		Data Format	Colors Alarms	Triggers Plot Security		
Data Tags PL_FB VL_FBFILTER DRV_EN DRV_DIS MT_ACC_32 DRV_STOP MT_V MT_DEC_32 MT_P_32 MT_CNTL MT_NUM MODBUS_MT DRV_ACTIVE MODBUS_SM Sm_mode SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE DRV_CLRFAULT			Data Source Source: Extent: Manipulation Treat As: Access: Read Mode: Storage: Data Scaling Scaling: Data From: Data To:	▼ PLC1 ▼ One Item None Signed Integer Read and Write Entire Array Non-Retentive Do Not Scale ▼ General	402059.LONG	Pic	
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😼 Data Tags 🕅 🕅 PL_FB	Data Source		
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X DRV_EN X DRV_DIS	Extent:	▼ One Item	
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MT_V MT_DEC_32	Treat As:	Signed Integer \checkmark	
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X MT_CNTL X MT_NUM	Read Mode:	Entire Array 🗸	
MODBUS_MT DRV_ACTIVE	Storage:	Non-Retentive 🗸	
MODBUS_SM sm_mode	Data Scaling		
SM_V1 FAULT ARRY	Scaling:	Do Not Scale 🗸	
X DRV_FAULT1 X HOME_MOVE	Data From:	☞ General Edit	
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Communications	Display To:	☞ General Edit	
🔁 Data Tags	Data Simulation –		

Data Tag	s - MT_P_	32								Tag 7
Data	Format	Colors	Alarms	Triggers	Plot	Security				
Data La	bels —									
Lab	el:	Same As	s Name				Translat	e		
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Mir	nimum Valu	Je: 🔻	General	Defau	t			Edit		
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Dig	its Before	DP: 7		▲ ▼	Digits A	fter DP: 3	 ▲ ▼ 			
Lea	d Characte	er: No	ne	\sim	Group [Digits: No	~			

Navigation Pane X	Data Tags - MT_CNTL	Tag 8 🕐 🕢	
🥶 New 🔹 🛱 🗙 🏭 🔎	Data Format Colors	s Alarms Triggers Plot Security	
Jota Tags	Data Source		^
VL_FBFILTER DRV_EN		PLC1 400533.LONG	Pick
DRV_DIS MT_ACC_32 DRV_STOP	Extent:	One Item	
X MT_V X MT_DEC_32		ned Integer V	
X MT_P_32 X MT_CNTL		ad and Write \checkmark	
MT_NUM MODBUS_MT DRV_ACTIVE		n-Retentive 🗸	
MODBUS_SM sm_mode MULTING M	Data Scaling		
FAULT_ARRY	Scaling: Do N	lot Scale 🗸 🗸	
X DRV_FAULT1 X HOME_MOVE	Data From: 🔻 G	Seneral	Edit
X DRV_CLRFAULT			Edit
	Display From: 🔽 G	Seneral	Edit
Communications	Display To: 🔻 G	Seneral	Edit
Data Tags	Data Simulation		

a rag	gs - MT_CN	r L					
ata	Format	Colors	Alarms	Triggers	Plot	Security	
Li	abels						
	el: [Same As	Name				Translate
	as:	Same As	s Name				
	scription:						
	iss:						
	t Type	Genera	ıl		Pick.		
	imits ——						
Li	i mits nimum Valu	e: 🔻 (General	Defaul	t		
Li			General General	Defaul			

Navigation Pane X	Data Tags - MT_NUM	M Tag 9	0
🧠 New 👻 🛱 🔀 🖉	Data Format C	Colors Alarms Triggers Plot Security	
Jota Tags	Data Source		1
VL_FBFILTER DRV_EN	Source:	▼ PLC1 400549.LONG Pick	
DRV_DIS	Extent:	▼ One Item	
X MT_ACC_32 X DRV_STOP	Manipulation:	None	
X MT_V	-		
MT_DEC_32	Treat As:	Signed Integer V	
X MT_P_32 X MT_CNTL	Access:	Read and Write \checkmark	
X MT_NUM	Read Mode:	Entire Array \vee	
MODBUS_MT DRV_ACTIVE	Storage:	Non-Retentive 🗸	
MODBUS_SM sm_mode	Data Scaling		
SM_V1	Scaling:	Do Not Scale 🗸	
X DRV_FAULT1 X HOME_MOVE	Data From:	▼ General Edit	
DRV_CLRFAULT	Data To:	▼ General Edit	
	Display From:	🐨 General 🛛 Edit	
Communications	Display To:	▼ General Edit	
Data Tags	Data Simulation		

ta Tag	gs - MT_NU	M					Tag 9 🔇
ata	Format	Colors	Alarms	Triggers	Plot	Security	
)ata La	abels						
Lab	oel:	Same As	Name			Translate	
Alia	as:	Same As	Name				
Des	scription:						
Cla: ormat	t Type —						
ormat		Genera	1		Pick.		
ormat For	t Type — rmat Type:	Genera	1		Pick.	x	
ormat For Jata Li	t Type — rmat Type:		l General	Defaul		Edit	
Format For Data Li Mir	t Type — rmat Type: i mits ——	Je: 🔻 (Defaul	lt		

Navigation Pane X)ata Tags - MODBUS_MT	Tag 10
🖼 New 🔹 🛱 🔀 🖉	Data Format Colors Alarms Triggers Plot Security	
 Data Tags PL_FB VL_FBFILTER DRV_EN DRV_DIS MT_ACC_32 DRV_STOP MT_V MT_DEC_32 MT_CNTL MT_NUM MODBUS_MT DRV_ACTIVE 	Data Source Image: PLC1 400951.LONG Extent: Image: One Item Manipulation: None Manipulation: None Image: One Item Image: One Item Treat As: Signed Integer Image: One Item Image: One Item Access: Write Only Image: One Item Image: One Item Read Mode: Entire Array Image: One Item Image: One Item Storage: Non-Retentive Image: One Item Image: One Item	Pick
MODBUS_SM sm_mode	Data Scaling	
SM_V1 FAULT_ARRY	Scaling: Do Not Scale \checkmark	
DRV_FAULT1 HOME MOVE	Data From: 💌 General	Edit
DRV_CLRFAULT	Data To: 💌 General	Edit
	Display From: 🗢 General	Edit
Communications	Display To: 💌 General	Edit
Data Tags	Data Simulation	

ita ray	gs - MODBU	US_MT						
ata	Format	Colors	Alarms	Triggers	Plot	Security		
)ata Li	abels							
Lat	bel:	Same As	Name				Translate	
Ali	as:	Same As	s Name					
De	scription:							
Cla	ass:]		
orma	t Type —							
Fo	t Type — rmat Type: imits ——	Genera	ıl		Pick			
Foi Data Li	rmat Type:		l General	Defau			Edit	
Foi Data Li Mir	rmat Type: imits	Je: 🔻		Defaul	it		Edit	

Navigation Pane X	Data Tags - DRV_AC	IVE	Tag 11 🕐 (
🥶 New 🔹 🛱 🗙 🛃 🔎	Data Format	Colors Alarms Triggers Plot Security	
Jota Tags	Data Source		^ ^
VL_FBFILTER DRV_EN	Source:	▼ PLC1 400221.LONG	Pick
X DRV_DIS	Extent:	▼ One Item	
MT_ACC_32			
DRV_STOP	Manipulation:	None	
X MT_V X MT_DEC_32	Treat As:	Signed Integer \sim	
MT_P_32	Access:	Read and Write 🗸	
MT_CNTL MT_NUM	Read Mode:	Entire Array	
X MODBUS_MT			
X DRV_ACTIVE	Storage:	Non-Retentive 🗸	
MODBUS_SM sm_mode	Data Scaling		
SM_V1 FAULT_ARRY	Scaling:	Do Not Scale \checkmark	
DRV_FAULT1	Data From:	▼ General	Edit
DRV_CLRFAULT	Data To:	▼ General	Edit
	Display From:	▼ General	Edit
Communications	Display To:	▼ General	Edit
Data Tags	Data Simulation		

	s - DRV_A	CTIVE						Tag 11 🕐 🌘
Data	Format	Colors	Alarms	Triggers	Plot	Security		
Data Li	abels							
Lat	oel:	Same As	s Name				Translate	
Alia	as:	Same A	s Name					
De	scription:							
Cla	ISS:							
Format For	rmat Type	Genera	al		Pick			
	rmat Type:	Genera	1		Pick			
Foi Data Li	rmat Type:		al General	Defau			Edit	
For Data Li Mir	rmat Type: i mits	Je: 🔻		Defau Defau	It		Edit	

Navigation Pane X	Data Tags - MODBUS_SM	Tag 12 🔇
🤓 New 👻 🛱 🔀 🖉	Data Format Colors Alarms Triggers Plot Security	
Data Tags X PL_FB	Data Source	
VL_FBFILTER	Source: VLC1 400953.LONG Pick	
X DRV_EN X DRV_DIS	Extent: Vone Item	
MT_ACC_32	Citerie officier	
DRV_STOP	Manipulation: None V	
MT_V MT_DEC_32	Treat As: Signed Integer \checkmark	
X MT_P_32	Access: Read and Write \checkmark	
MT_CNTL MT_NUM	Read Mode: Entire Array	
MODBUS_MT DRV_ACTIVE	Storage: Non-Retentive V	
MODBUS_SM sm_mode	Data Scaling	
SM_V1	Scaling: Do Not Scale	
DRV_FAULT1 HOME_MOVE	Data From: 💌 General Edit	
DRV_CLRFAULT	Data To: 👻 General Edit	
	Display From: 🔻 General Edit	
Communications	Display To: 💌 General Edit	
🚽 Data Tags	Data Simulation	

Navigation Pane X	Data Tags	- MODB	JS_SM						Tag 12 🕐 🕜
🧠 New 🔹 🕞 🗙 🍰 🔎	Data	Format	Colors	Alarms	Triggers	Plot	Security		
Data Tags	Data Lat	bels —							
VL_FBFILTER DRV_EN	Labe	el:	Same A	s Name				Translate	
DRV_DIS MT_ACC_32	Alias		Same A	s Name					
DRV_STOP		cription:							
MT_V MT_DEC_32	Clas								
X MT_P_32 X MT_CNTL	Format						_		
MT_NUM MODBUS_MT	Form	nat Type:	Genera	al		Pick.			
DRV_ACTIVE MODBUS_SM	Data Lin	nits —							
sm_mode SM_V1	Mini	imum Valu	Je: 🔻	General	Defaul	t		Edit	
FAULT_ARRY	Max	imum Valu	Je: 🔻	General	Defaul	t		Edit	
DRV_FAULT1 HOME_MOVE	Defa	ault Limits	Aut	omatic			\sim		
DRV_CLRFAULT									

Navigation Pane X	Data Tags - sm_mode Tag 14 🕐 🕡					
🧠 New 🔹 🛱 🗶 🖓 🔑	Data Format Colors Alarms Triggers Plot Security					
 Data Tags PL-FB VL_FBFILTER DRV_EN DRV_DIS MT_ACC_32 DRV_STOP MT_V 	Data Source Source: ▼ PLC1 400751.LONG Pick Extent: ▼ One Item Manipulation: None ✓ Treat As: Signed Integer ✓	<u> </u>				
MT_DEC_32 MT_P_32 MT_CNTL MT_NUM MOBBUS_MT MODBUS_SM MODBUS_SM	Access: Read and Write Read Mode: Entire Array Storage: Non-Retentive					
X sm_mode X SM_V1 K FAULT_ARRY X DRV_FAULT1	Data Scaling Scaling: Do Not Scale ~					
HOME_MOVE	Data From: V General Edit Data To: V General Edit					
Communications	Display From: V General Edit Display To: V General Edit					
🛁 Data Tags	Data Simulation					

ata Tag	gs - sm_mo	de									Tag 14 🕐
Data	Format	Colors	Alarms	Triggers	Plot	Security					
Data La	abels										
Lab	oel:	Same A	s Name				Т	ranslate			
Alia	as:	Same A	s Name								
De	scription:										
Cla	SS:										
Format	t Type —										
For	rmat Type:	Genera	al		Pick	c					
Data Li	imits —										
Mir	nimum Valu	ue: 💌	General	Defau	lt				Edit		
Ma	ximum Val	ue: 💌	General	Defau	lt				Edit		
Def	fault Limits	: Aut	omatic			\sim					
vigation Pa	ane	_		C Data Tags	SM_V1						Tag 15
	🖙 🗙 🍰	P	_	Data	Format Co	olors Alarms	Triggers Plot	Security			
Data Tags				Data Sou	rce —						
VL_FB	FILTER			Sourc	e:	▼ PLC1	400758.LONG			Pick	
X DRV_E				Exten	t:	▼ One Item					
X MT_A				Manie	oulation:	None	~				
X MT_V				Treat	L 1	Signed Integer	~				

X DRV_DIS	Extent:	The Item
MT_ACC_32		
DRV_STOP	Manipulation:	None 🗸
MT_V	Treat As:	Signed Integer v
MT_DEC_32	incut As.	Signed integer
X MT_P_32	Access:	Read and Write 🗸
MT_CNTL		
MT_NUM	Read Mode:	Entire Array 🗸
MODBUS_MT	Storage:	Non-Retentive 🗸
DRV_ACTIVE	been age.	NOII-RELEILINE V
MODBUS_SM		
X sm_mode	Data Scaling	
-		
X SM_V1	Scaling:	Do Not Scale
SM_V1 FAULT_ARRY	Scaling:	Do Not Scale \checkmark
SM_V1 FAULT_ARRY DRV_FAULT1	Scaling: Data From:	Do Not Scale V General Edit
X SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE	-	
SM_V1 FAULT_ARRY DRV_FAULT1	-	
X SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE	Data From: Data To:	 ▼ General ▼ General Edit
X SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE	Data From:	▼ General Edit
SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE DRV_CLRFAULT	Data From: Data To: Display From:	 ▼ General ▼ General ► General ► Edit ► General ► Edit
X SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE	Data From: Data To:	 ▼ General ▼ General Edit
SM_V1 FAULT_ARRY DRV_FAULT1 HOME_MOVE DRV_CLRFAULT	Data From: Data To: Display From:	 ▼ General ▼ General ► General ► Edit ► General ► Edit

	s - SM_V1							Tag 15 🕐 (
Data	Format	Colors	Alarms	Triggers	Plot	Security		
Data La	bels							
Lab	el:	Same As	s Name				Translate	
Alia	s:	Same A	s Name					
Des	cription:							
Clas	\$\$:							
Format For	mat Type:	Genera	il		Pick			
Data Lir	mits —							
Min	imum Valu	Je: 🔻	General	Defau	lt		Edit	
MIN								
	kimum Valu	ue: 🔻	General	Defau	lt		Edit	

Navigation Pane X	Data Tags - FAULT_ARRY Tag 16 🕐 🕼					
🧠 New 🔹 🕞 🗙 🍰 🔎	Data Format Colors Alarms Triggers Plot Security					
Substance of the second	Data Source Source: VPLC1 408193.LONG Pick	^				
X DRV_EN X DRV_DIS X MT_ACC_32	Extent: Array 4					
X DRV_STOP X MT_V	Manipulation: None Treat As: Signed Integer					
X MT_DEC_32 X MT_P_32 X MT_CNTL	Access: Read Only ~					
MT_NUM MODBUS_MT DRV_ACTIVE	Read Mode: Entire Array Storage: Non-Retentive					
MODBUS_SM sm_mode MODBUS_V1	Data Scaling					
FAULT_ARRY	Scaling: Do Not Scale 🗸					
DRV_FAULT1 HOME_MOVE	Data From: 💌 General Edit					
DRV_CLRFAULT	Data To: 💌 General Edit					
	Display From: V General Edit					
Communications	Display To: 💌 General Edit					
🔁 Data Tags	Data Simulation					

ata Tag	s - FAULT	ARRY						Tag 16
Data	Format	Colors	Alarms	Triggers	Plot	Security		
Data La	bels —							
Lab	el:	Same A	s Name				Translate	
Alia	is:	Same A	s Name					
Des	cription:							
Cla	ss:							
Format	Туре —							
For	mat Type:	Numer	ic		Pick			
Data Li	mits —							
Mir	nimum Valu	ue: 🔻	General	Defau	It			Edit
Ma	ximum Val	ue: 💌	General	Defau	lt			Edit
Def	ault Limits	Aut	omatic			~		
Fixed D	ata Forma	nt —						
Nu	mber Base:	De	cimal	\sim	Sign Mo	de: Unsign	ed	~
Dig	its Before	DP: 10		▲ ▼	Digits At	fter DP: 0	▲ ▼	
Lea	d Characte	er: No	ne	\sim	Group D	Digits: No	~	
Dynam	ic Data Fo	rmat —						
ynam								

Navigation Pane X	Data Tags - DRV_FAU	ULT1	Tag 19 🕐 🤅
🧠 New 🔹 🛱 🗙 🏭 🔎	Data Format	Colors Alarms Triggers Plot Security	
😼 Data Tags 🔽 PL_FB	Data Source		^
VL_FBFILTER	Source:	▼ PLC1 400955.LONG	Pick
X DRV_EN X DRV_DIS	Extent:	▼ One Item	
MT_ACC_32	Manipulation:	None	
X DRV_STOP X MT_V			
 MT_DEC_32 MT_P_32 	Treat As:	Signed Integer V	
MT_P_32	Access:	Read and Write \checkmark	
	Read Mode:	Entire Array	
DRV_ACTIVE	Storage:	Non-Retentive \checkmark	
X MODBUS_SM x sm_mode	Data Scaling		
SM_V1 FAULT_ARRY	Scaling:	Do Not Scale 🗸	
DRV_FAULT1	Data From:	🔻 General	Edit
HOME_MOVE DRV_CLRFAULT	Data To:	▼ General	Edit
	Display From:	▼ General	Edit
Communications	Display To:	▼ General	Edit
🚭 Data Tags	Data Simulation –		

ita ray:	s - DRV_F/	AULT1						
Data	Format	Colors	Alarms	Triggers	Plot	Security		
Data La	bels							
Lab	el:	Same As	s Name				Translate	
Alia	s:	Same A	s Name					
Des	cription:							
Clas	is:							
Format Forr Data Lir	mat Type:	Genera	al		Pick.			
Forr Data Lir	mat Type:		al General	Defau			E	lit
Forr Data Lir Min	mat Type: mits	Je: 🔻		Defaul	lt			Jit

Navigation Pane X	Data Tags - HOME_N	NOVE	Tag 18 🕐
🥶 New 📲 🛱 🗙 🏭 🔎	Data Format	Colors Alarms Triggers Plot Security	
😼 Data Tags 🕅 🕅 PL_FB	Data Source		^
VL_FBFILTER	Source:	▼ PLC1 400409.LONG	Pick
X DRV_EN	Jource		1 Percent
X DRV_DIS	Extent:	▼ One Item	
X MT_ACC_32			
DRV_STOP	Manipulation:	None 🗸	
MT_V	Treat As:	Signed Integer V	
MT_DEC_32	incut As.	Signed integer	
MT_P_32	Access:	Read and Write 🗸	
MT_CNTL	Read Mode:	Fulling American	
	Reau Moue;	Entire Array \vee	
DRV_ACTIVE	Storage:	Non-Retentive 🗸	
MODBUS_SM			
x sm_mode	Data Scaling		
X SM_V1			
FAULT_ARRY	Scaling:	Do Not Scale \vee	
X DRV_FAULT1	Data From:	▼ General	Edit
HOME_MOVE			
DRV_CLRFAULT	Data To:	🔻 General	Edit
	Display From:	▼ General	Edit
Communications	Display To:	▼ General	Edit
Data Tags	Data Simulation –		

ata Tag	gs - HOME_	MOVE						Tag 18 🕐 (
Data	Format	Colors	Alarms	Triggers	Plot	Security		
Data La	abels							
Lab	oel:	Same As	s Name				Translate	
Alia	as:	Same A	s Name					
De	scription:							
Cla	ISS:]		
Format For	t Type — rmat Type:	Genera	1		Pick			
Data Li	imits —							
Mir	nimum Valu	Je: 🔻	General	Defau	It		Edit	
Ma	iximum Valu	ue: 💌	General	Defau	lt		Edit	
	fault Limits		omatic					

Navigation Pane X	Data Tags - DRV_CLRFAULT	Tag 17
🥶 New 🔸 🛱 🗙 💑 🔎	Data Format Colors Alarms Triggers Plot Security	
Data Tags PL_FB VL_FBFILTER DRV_EN DRV_DIS MT_ACC_32 DRV_STOP MT_V MT_DEC_32 MT_DEC_32 MT_NUM MT_NUM MOBUS_MT DRV_ACTIVE MODBUS_SM	Data Source Source: PLC1 400225.LONG Extent: One item Manipulation: None Treat As: Signed Integer Access: Read and Write Read Mode: Entire Array Storage: Non-Retentive 	Pick
sm_mode SM_V1	Data Scaling Scaling: Do Not Scale V	
FAULT_ARRY DRV_FAULT1	Data From: V General	Edit
HOME_MOVE DRV_CLRFAULT	Data To: 🗸 General	Edit
	Display From: 💌 General	Edit
Communications	Display To: 💌 General	Edit
🤤 Data Tags	Data Simulation	
Contra Deserv		
Data Format Colors Alarms T Data Labels Label: Same As Name	riggers Plot Security Translate	
Alias: Same As Name		
Description:		
Class:		
Format Type		
Format Type: General	Pick	
Data Limits		
Minimum Value: 💌 General	Default Edit	
Maximum Value: 🔻 General	Default Edit	
Default Limits: Automatic	~	



Type A	12 R	adial	Gauge	1	Pro	pertie	

Format Layout	Style Bar	nds Bugs Show		
Value				
Value:	▼ Tag	VL_FBFILTER	Pick	NV11
Minimum:	▼ General	-3000000	Edit	
Maximum:	▼ General	+3000000	Edit	
Scale				- 12 - 5
Major Color:	▼ Fixed	Black	V Pick	
Minor Color	- Fixed	Black	V Pick	
Major Divisio	ons: 4			
Minor Divisi	ons: 5	▲ ▼		
Display				-
Display Mod	le: Pointer	~		
Display Colo	▼ Fixed	Red	✓ Pick	
Pointer Style		Pointed ~		
ОК С	ancel			

Data Box 1 Properties \times Data More Entry Format Colors Figure Edge Show Data Source PL_FB: +0.000 Value: 💌 Tag PL_FB Pick... Field Type Contents: Label and Data \sim Layout: Single Line \sim Operation: Display Only Get From Tag ✓ Limits 🗹 Label Format Colors Text Format Text Font: Hei 24 Regular ✓ Pick... Text Layout Horizontal: Center Vertical: Middle \sim Line Spacing: 2 * OK Cancel

Data Box 2 Properties	\times
Data More Entry Format Colors Figure Edge Show	
Data Source	VL_FBFILTER: +0.000
Value: Tag VL_FBFILTER Pick	_
Field Type	
Contents: Label and Data \checkmark	
Layout: Single Line \vee	
Operation: Display Only \sim	
Get From Tag	
Limits Label Format Colors	
Text Format	
Text Font: Hei 24 Regular V Pick	
Text Layout	
Horizontal: Center V	
Vertical: Middle ~	
Line Spacing: 2	
mage Button 3 Properties	×
Button Show Action	
Control	
Maintain Aspect: Yes V	
Images	
Pick Pick	
Browse	
Up: Down: Adjust Adju	
Clear Clea	
OK Cancel	

mage Butto	on 3 Prope	erties			×
Button	Show A	Action			
Action M	ode —				
Opera	ation: U	ser Defined	~		
Action De	tails —				
On Pr	essed:	🔻 General	Set(DRV_EN,1)	Edit	
On Au	uto-Repea	t: 🔻 General	None	Edit	
On Re	eleased:	🔻 General	Set(DRV_EN,0)	Edit	
Action Co Protec	_	one	~		
Enabl		General tru	e	Edit	
Remo	te: Er	nabled V			
ОК	Cano	el			

Image Button 1 Properties

mage Button 1 Properties					×
Button Show Action					
Maintain Aspect: Yes	~				
Images	Pick		9	Pick	
Up:	Browse Adjust	Down:		Browse Adjust	
	Clear			Clear	
OK Cancel					

mage Button 1	Propert	ies			×
Button Sho	w Act	ion			
Action Mode					
Operation	n: User	r Defined	\sim		
Action Detail	s —				
On Presse	ed:	▼ General	Set(DRV_DIS,1)	Edit	
On Auto-	Repeat:	▼ General	None	Edit	
On Relea	sed:	▼ General	Set(DRV_DIS,0)	Edit	
Action Contro Protection Enable: Remote:	n: Non	Seneral tru	e	Edit	
ОК	Cancel				
UN	currect				

Indicator 1 Properties

Indicator Show					
Control					
Status:	▼ Tag	DRV_ACTIVE		Pick	
Maintain Aspect:	Yes	\sim			
Images			 		
off:		wse On: ust	Pick Browse Adjust Clear		
OK Cance			cicar		

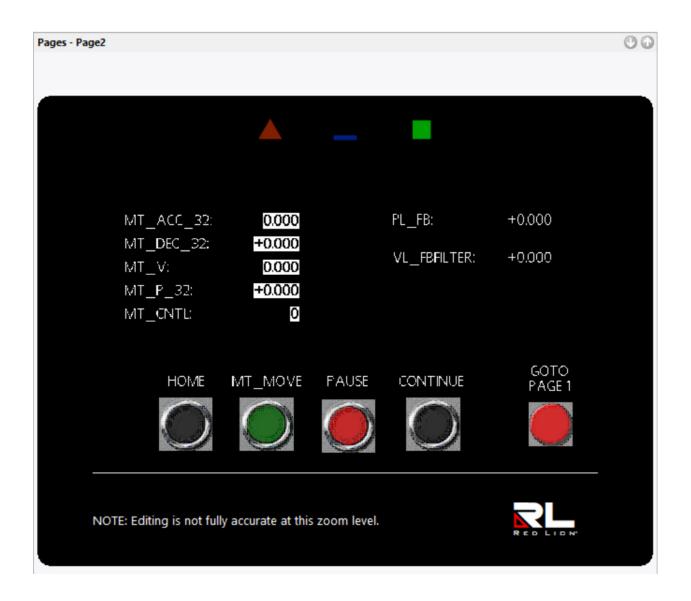
 \times

Image But	ton 4 Pro	operties				\times
Button Control	Show	Action	 ✓ Pick Browse Adjust Clear 	Down:	Pick Browse Adjust Clear	
OK	Ca	ancel				

5	ties		
utton Show Ad	tion		
ction Mode			
Operation: Use	er Defined	\sim	
ction Details			
On Pressed:	▼ General	Set(MODBUS_SM,2)	Edit
On Auto-Repeat:	▼ General	None	Edit
			Edit
On Released:	▼ General	Set(MODBUS_SM,0)	Eur
ction Control		~	Edit

36

Image Button 2 Pro	operties	×
Button Show	Action	
Action Mode -		
Operation:	Goto Page 🗸	
Action Details –		
Target Page:	Page2 V New	
Show As:	Normal Page \checkmark	
Action Control		
Protection:	None 🗸	
Enable:	▼ General true Edit	
Remote:	Enabled \vee	
OK Ca	incel	



Data Box 3 Properties	×
Data More Entry Format Colors Figure Edge Show	
Data Source	MT_ACC_32: 0.000
Value: Tag MT_ACC_32 Pick	
Field Type	
Contents: Label and Data \checkmark	
Layout: Single Line \vee	
Operation: Data Entry 🗸	
Get From Tag	
Text Format	
Text Font: Hei 24 Regular V Pick	
Text Layout	
Horizontal: Center 🗸	
Vertical: Middle \checkmark	
Line Spacing: 2	

	Propert	ies												
ata	More	Entry	Format	Colors	Figure	Edge	Show							
)ata Sou	rce —									-	MT	_DEC_	32:	+0.0
Value	s ▼ T	ag	MT_DE	C_32				Pic	c					
ield Typ	e —									 _				
Conte	ents:	Label and	d Data		~									
Layou	ut:	Single Lir	ne		\sim									
Opera	ation:	Data Entr	y		~									
Get From	Tag —									 				
Get From			🗹 Label			Format			lors	 —- : ¹				
🗹 Li	imits		🗹 Label			Format		_ co	lors	 _				
🗹 Li	imits nat —	Hei 24 Reç				Format Pick]	_ co	lors	 				
☑ Li T ext Form Text F	imits nat — Font: H	Hei 24 Reç]	c.	lors	 				
Text Forn Text F Text Layo	imits nat — Font: H	Hei 24 Reg Center	gular	~]	_ co	lors					
☑ Lii Text Form Text F Text Layo	imits nat — Font: P out — contal:		gular	*]		lors	 				

Data Box 5 Prope	erties				\times
Data More	Entry Format Colo	rs Figure Edge Sh	ow		
Data Source –				MT_V:	0.000
Value: 💌	Tag MT_V		Pick		
Field Type —					
Contents:	Label and Data	~			
Layout:	Single Line	\sim			
Operation:	Data Entry	~			
Get From Tag					
🗹 Limits	🗹 Label	✓ Format	Colors		
Text Format					
Text Font:	Hei 24 Regular	✓ Pick			
Text Layout —					
Horizontal:	Center 🗸 🗸				
Vertical:	Middle \checkmark				
Line Spacin	g; 2				

ita Box 6 Pr	onerties					
	operties					
Data M	ore Entry	Format Colors	s Figure Edge St	wor		
Data Source					MT_	P_32: +0.00
Value:	▼ Tag	MT_P_32		Pick		
Field Type						
Conten	Label an	nd Data	~			
Layout:	Single Li	ine	~			
Operati	on: Data Ent	try	\sim			
Get From Ta	ag					
🗹 Limi	ts	🗹 Label	Format	Colors		
Text Forma	t ———					
Text For	Hei 24 Re	egular	∽ Pick			
Text Layou	: ——					
Horizor	tal: Cente	er 🗸 🗸				
Vertical	Middl	le ~				
	acing: 2	*				

Data Box 7 Properties

Data	More	Entry	Format	Colors	Figure	Edge	Show						
Data So	ource —									_	MT	CNTL:	0
Val	ue: 🔻	Tag	MT_C	NTL				Pick]				
Field T	уре —									_			
Co	ntents:	Label a	nd Data		~								
Lay	out:	Single	Line										
Ор	eration:	Data Er	ntry		\sim								
Get Fro	om Tag -									_			
\checkmark	Limits		🗹 Labe	9	\checkmark	Format		Color	s				
Text Fo	ormat —												
Tex	t Font:	Hei 24 R	egular		~	Pick							
Text La	yout —									_			
Ho	rizontal:	Cent	er	\sim									
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Lin	e Spacing	g; 2	*										
OK	C	ancel											

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ata Box	1 Proper	ties									×
Data	More	Entry	Format	Colors	Figure	Edge	Show				
Data Se	ource —									 PL_FB:	+0.000
Val	ue: 💌 1	ſag	PL_FB					Pick]		+0.000
Field T	уре										
Co	ntents:	Label an	d Data		~						
Lay	out:	Single Li	ne		~						
Ор	eration:	Display (Only		\sim						
⊡ Text Fo	Limits		🗹 Labe	I		Format		Color	s		
		Hei 24 Re	gular		~	Pick					
Text La	ayout —										
Ho	rizontal:	Cente	r	\sim							
Ver	rtical:	Middl	e	\sim							
Lin	e Spacing	2	* *]							

Data Box 2 Properties

Data	More	Entry	Format	Colors	Figure	Edge	Show						
Data S	ource —									-	VL_FBFIL1	TER:	+0.000
Val	lue: 💌	Tag	VL_FB	FILTER				Pick					
Field T	уре —												
Co	ntents:	Label ar	nd Data		~								
Lay	yout:	Single L	ine		~								
Op	peration:	Display	Only		\sim								
Get Fro	om Tag -												
\checkmark	Limits		🗹 Labe	9	\square	Format		Color:	5				
Text Fo	ormat —									-			
Tex	kt Font:	Hei 24 Re	egular		~	Pick							
Text La	ayout —									-			
Ho	orizontal:	Cente	er	\sim									
Ve	rtical:	Midd	le	\sim									
Lin	ie Spacing	g: <mark>2</mark>	* *										

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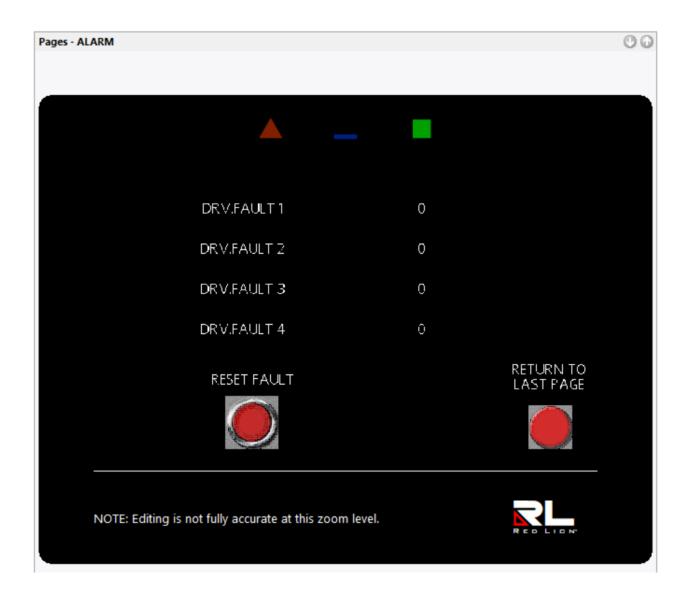
Image Button 3 P	Properties			×
Button Show	Action			
Action Mode				
Operation:	User Defined	~		
Action Details				
On Pressed	▼ General	Set(HOME_MOVE, 1)	Edit	
On Auto-Re	epeat: 🔻 General	None	Edit	
On Release	d: 💌 General	Set(HOME_MOVE,0)	Edit	
Action Control Protection: Enable: Remote:	None General true Enabled V	e .	Edit	
ОК	Cancel			

utton Show	Action		
ction Mode –			
Operation:	User Defined	~	
ction Details			
On Pressed:	▼ General	Set(MODBUS_MT,24)	Edit
On Auto-Re	peat: 💌 General	None	Edit
On Released	d: ▼ General	Set(MODBUS_MT,0)	Edit
On Released ction Control Protection:	d:	Set(MODBUS_MT,0)	
ction Control	None		Edit

nage But	ton 2 Pr	operti	es			×
Button	Show	Acti	ion			
Action M	Mode –					
Ope	ration:	User	Defined	~		
Action [Details -					
On	Pressed:		▼ General	Set(DRV_STOP, 1)	Edit	
On	Auto-Rep	oeat:	▼ General	None	Edit	
On	Released		▼ General	Set(DRV_STOP,0)	Edit	
Action (Control					
Prot	ection:	None	e	~		
Enal	ble:	▼ G	ieneral tru	e	Edit	
Rem	iote:	Enab	oled v			
Rem		Enab ancel	oled ~			

Button Show A	ction		
Action Mode			
Operation: Us	er Defined	~	
Action Details —			
On Pressed:	💌 General	Set(MODBUS_MT,2)	Edit
On Auto-Repea	😴 General	None	Edit
On Released:	🔻 General	Set(MODBUS_MT,0)	Edit
	one General tr	v	Edit

Image Button 1 Pro	operties	×
Button Show	Action	
Action Mode -		
Operation:	Goto Page \checkmark	
Action Details -		
Target Page:	Page1 ~ New	
Show As:	Normal Page \sim	
Action Control		
Protection:	None 🗸	
Enable:	▼ General true Edit	
Remote:	Enabled \checkmark	
OK Ca	incel	



Data Box 1 Prope	rties			×
Data More	Entry Format Color	s Figure Edge Sho	w	
Data Source —				 0
Value: 💌	General FAULT_ARRY[0	0	Edit	
Field Type —				
Contents:	Data Value	\sim		
Layout:	Single Line	\sim		
Operation:	Display Only	\sim		
Get From Tag				
🗹 Limits	🗹 Label	Format	Colors	
Text Format				
Text Font:	Hei 24 Regular	∼ Pick		
Text Layout				
Horizontal:	Center 🗸 🗸			
Vertical:	Middle \vee			
Line Spacing	g: 2 🔺			

ata	More	Entry	Format	Colors	Figure	Edge	Show			
ata So										<u>^</u>
										0
Val	ue: 🔻 (General	FAULT	ARRY[1]				Edit		
ield Ty	уре —									
Cor	ntents:	Data Val	ue		~					
Lay	out:	Single Li	ne		~					
Ор	eration:	Display (Only		~					
\leq	Limits		🗹 Labe			Format		Colors		
Text Fo	t Font:	Hei 24 Re	gular		~	Pick	a.			
Tex Text La		Center	r	~						
Text Fext La Hor	yout —	Center		~ ~						

Data Box 3 Properties

Data More Entry Format Colors Figure Edge Show	
Data Source	о
Value: General FAULT_ARRY[2] Edit	
Field Type	
Contents: Data Value 🗸	
Layout: Single Line \checkmark	
Operation: Display Only 🗸	
Get From Tag	
✓ Limits ✓ Label ✓ Format Colors	
Text Format	
Text Font: Hei 24 Regular V Pick	
Text Layout	
Horizontal: Center V	
Vertical: Middle ~	
Line Spacing: 2	

ata	More	Entry	Format	Colors	Figure	Edge	Show				
)ata So	ource —										0
Valu	ue: 🔻	General	FAULT	ARRY[3]				Edit.			0
Field Ty	/pe										
Cor	ntents:	Data Valu	Je		\sim						
Lay	out:	Single Li	ne		\sim						
Ope	eration:	Display C	Only		\sim						
Get Fro	m Tag –										
	Limits		🗹 Labe		\checkmark	Format			ors		
Text Fo	rmat —										
Text	t Font:	Hei 24 Re	gular		~	Pick					
Text La	yout —										
Hor	rizontal:	Center	ſ	~							
Vert	tical:	Middle	2	\sim							
			*								

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Image Button 2 Pro	operties	×
Button Show	Action	
Action Mode -		
Operation:	Goto Page 🗸	
Action Details –		
Target Page:	Previous Page V New	
Show As:	Normal Page 🗸	
Action Control		
Protection:	None 🗸	
Enable:	▼ General true Edit	
Remote:	Enabled \checkmark	
OK Ca	ancel	