Function Block

Reference	Mail_Send
Revision	1.0
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Date	05/12/2012
+ Support	http://support-omron.fr/

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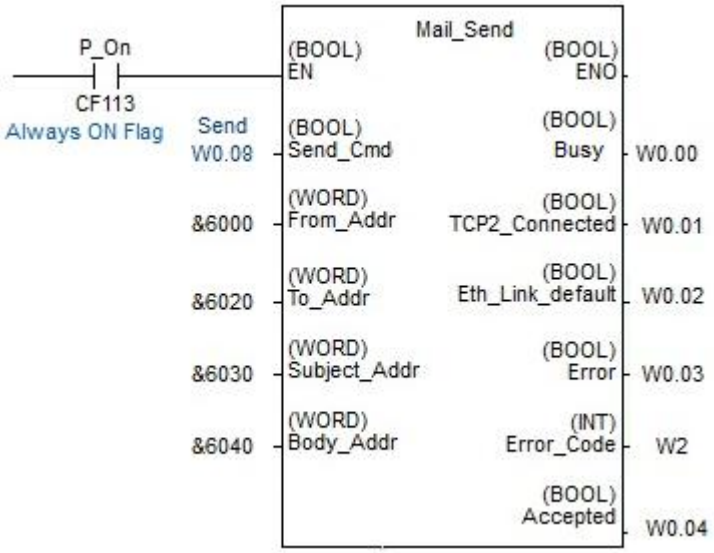
Sending mail with a CP1L-Ex (Ethernet Built-In)

Function	Allow to send mail to a SMTP server
File	Mail_Send_CP1L.zip
Controller	CP1L-EL et CP1L-EM
Symbol	

Configuration

The informations related to the connection (login & password) should be set in the DM area D32500 to D32599:

address	description	Details	bytes
D32500 D32501	POP server IP Address	Exemple with orange : 80.12.242.51 → : 50.0C.F2.33	4
D32502 D32503	SMTP server IP asdress	Exemple with orange :193.252.22.64 → C1.FC.16.40	4
D32504 D32509	Reserved (*QUIT* sequence)		
D32510 D32529	Login	USER ***login*** RL$0	14 *
D32530 D32539	Password	PASS ***Password*** RL$0	19 *
D32540 D32469	Source Email address	MAIL FROM: <***EmailSource***>RL$0	27 *
D32570 D32599	Destination Email address	RCPT TO: <***EmailDestinat***>RL$0	31 *
D32600 D32649	Code MIME (already filled in the DM file CP1L-E_MailConf.mem)	*MIME-Version :1.0* *Content-Type : text/plain; charset=US-ASCII* *Content-Transfer_Encoding : 7bit*	
D32700 D32767	Response area		136

* : quantity of byte in this exemple, ASCII string RL$0 (Cr + Lf + Null) means hexa code: 0D0A00

SMTP and POP addresses of the Internet access provider can be found on www.

Diagnostic

The steps of FB execution are reported to W511 to allow easy diagnostics:

Address		Description
W511	00	Initial step : TCP connection to POP server
	01	Waiting for incoming message POP server
	02	Waiting for login acknowledgment
	03	Waiting for password acknowledgment
	04	Connecting to POP server
	05	Closing socket
	06	Connecting to SMTP server
	07	Waiting for SMTP connection acknowledgment
	08	Waiting for identification acknowledgment
	09	Waiting for Mail source acknowledgment
	10	Waiting for Mail destination acknowledgment
	11	Waiting for message 'enter mail'
	12	Send mail and wait for message 'accepted'
	13	Closing SMTP connection and socket
	14	Ending

Input Variables

Name	Type	range	Function
EN	BOOL	OFF-ON	ON = FB execution
Send_Cmd	BOOL	OFF-ON	
From_Addr	WORD	CP1L-EL 0000-9999 and 32000-32499	Address of 1st DM contening the name of the sender
Subject_Addr	WORD		Address of 1st DM contening the name of the recipient
Body_Addr	WORD	CP1L-EM 0000-31999	Address of 1st DM contening the body of the mail

Output Variables

Name	Type	range	Function
Busy	BOOL	OFF-ON	FB executing the command
TCP2_Connected	BOOL	OFF-ON	Socket No 2 connected
Eth_Link_Default	BOOL	OFF-ON	Ethernet link problem
Error	BOOL	OFF-ON	Error flag
Error_Code	UINT	0000-FFFF	Error Code (see below)
Accepted	BOOL	OFF-ON	Mail accepted and sent by SMTP server

Error Code of output variable 'Error_Code':

code	Errors related to the socket
2000	Local IP address setting error
2001	TCP/UDP port already in use
2002	Address resolution failed
2003	Status error
2004	Local IP address not set
2006	Socket Timeout
2007	Socket handle out of range
2008	Socket communication resource overflow