

POSP_JOG

G3F-POPA, G4F-POPA(AXIS=0) JOG Operation

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description	
	Input REQ : Function block execution request BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) ROT : Set the rotation direction of JOG operation ('0': FWD, '1': BWD) HL : Set the high-speed/low-speed of JOG operation. ('0': Low-speed, '1': High-speed)	Output DONE : On if the function block is executed without error and hold on till next execution. STAT : Display the error code generated during the function block execution.

Function

Instruction for G3F-POPA or G4F-POPA module to execute JOG operation which is used for manual operation and test run. JOG operation is executed when REQ input is on and stopped when REQ input is off.

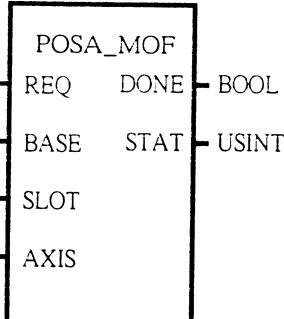
Program example

LD	IL
	<pre> CAL POSP_JOG POSP_JOG REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS ROT := ROT HL := HL LD POSP_JOG.DONE ST %Q 0.1.0 LD POSP_JOG.STAT ST JOG_STAT </pre>

POSP_MOF

G3F-POPA, G4F-POPA(AXIS=0) M Code Off

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description
 <pre> graph LR subgraph FB [POSA_MOF] direction TB R[REQ] --- FB B1[BASE] --- FB S1[SLOT] --- FB A1[AXIS] --- FB D1[DONE] --- FB B2[STAT] --- FB A2[AXIS] --- FB end R --- R[REQ] B1 --- B1[BASE] S1 --- S1[SLOT] A1 --- A1[AXIS] D1 --- D1[DONE] B2 --- B2[STAT] A2 --- A2[AXIS] </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and hold on till next execution. STAT : Display the error code generated during the function block execution.

Function

Instruction to switch off M Code On signal which is set during positioning operation as the M code mode (with, after) in parameter.

■ Program example

POSP MPG

G3F-POPA MPG operation enable	Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●			

Function block	Description
<pre> graph LR subgraph FB [POSP MPG] direction TB R[REQ] --- FB B1[BASE] --- FB S1[SLOT] --- FB A1[AXIS] --- FB D1[DONE] --- FB S2[STAT] --- FB end </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request BASE : G3F-POPA module installation base location number SLOT : Slot location number of G3F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and hold on till REQ condition is off. STAT : Display the error code generated during the function block execution.

■ Function

Instruction to enable operation of external manual pulse generator.

■ Program example

LD	IL
<pre> graph LR I0["%I0.0.0"] --> R1[REQ] R1 --> Q0["%Q0.1.0"] R1 --> D1[DONE] FB[POSP MPG] FB --> D1 FB --> S1[MPG_STAT] S1 --> JOG["JOG_STAT"] </pre>	<pre> CAL POSP MPG REQ . = %I0.0.0 BASE : = BASE SLOT : = SLOT AXIS : = AXIS LD POSP MPG.DONE ST %Q 0.1.0 LD POSP MPG.STAT ST JOG_STAT </pre>

POSP_NM

G3F-POPA, G4F-POPA(AXIS=0) Next Move

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description	
	Input REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only)	Output DONE : On if the function block is executed without error and off till ACT is on. STAT : Display the error code generated during the function block execution. ACT : On if the order processing complete signal is received from G3F-POPA or G4F-POPA module and off if the instruction is used according to REQ condition.

■ Function

Instruction to operate continuously without stop from current operation speed to next operation speed. Available only when current operation is constant speed operation.

■ Program example

LD	IL
	<pre> CAL POSP_NM POSP_NM REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS LD POSP_NM.DONE ST %Q 0.1.0 LD POSP_NM.STAT ST NM_STAT LD POSP_NM.ACT ST NM_ACT </pre>

POSP_OFF

G3F-POPA, G4F-POPA(AXIS=0)
Output prohibit release

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description
<pre> graph LR subgraph FB [POSP_OFF] direction TB IN_REQ[REQ] --> FB IN_BASE[BASE] --> FB IN_SLOT,SLOT --> FB OUT_DONE[DONE] --> OUT_DONE OUT_STAT[STAT] --> OUT_STAT end </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and off till ACT is on. STAT : Display the error code generated during the function block execution and the error of G3F-POPA or G4F-POPA module.

Function

Instruction to release the output prohibit after the output is prohibited by emergency stop or upper/lower limit error.

Program example

LD	IL
<pre> graph LR I0["%I0.0.0"] --> R1[REQ] R1 --> FB1[POSP_OFF] FB1 -- DONE --> R2[REQ] R2 --> FB2[POSP_OFF] FB2 -- DONE --> Q010["%Q0.1.0"] FB1 -- BASE --> FB1_BASE[BASE] FB1 -- SLOT --> FB1_SLOT[SLOT] FB2 -- BASE --> FB2_BASE[BASE] FB2 -- SLOT --> FB2_SLOT[SLOT] </pre>	<pre> CAL POSP_OFF POSP_OFF REQ := %I0.0.0 BASE := BASE SLOT := SLOT LD POSP_OFF.DONE %Q0.1.0 ST LD POSP_OFF.STAT OFF_STAT ST </pre>

POSP_OR

G3F-POPA, G4F-POPA(AXIS=0) Override

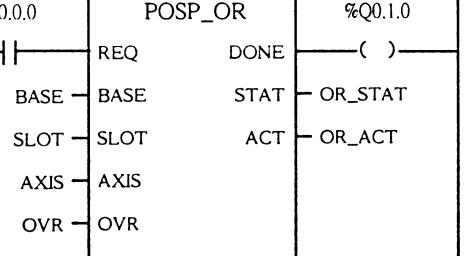
Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description	
<p>The function block diagram shows a rectangle labeled "POSP_OR". On the left, there are five input connections: "REQ" (BOOL), "BASE" (USINT), "SLOT" (USINT), "AXIS" (USINT), and "OVR" (USINT). On the right, there are three output connections: "DONE" (BOOL), "STAT" (USINT), and "ACT" (BOOL).</p>	Input <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) OVR : Change the speed from 10 to 150% based on original operation speed and set 1~15 value(Preset value x 10% speed change) 	Output <ul style="list-style-type: none"> DONE : On if the function block is executed without error and off if ACT is on. STAT : Display the error code generated during the function block execution. ACT : On if the location order processing complete is received from G3F-POPA or G4F-POPA and off if the instruction is used according to REQ condition.

■ Function

Instruction to change the speed during the operation that can change the speed from 10 to 150% by 10%.

■ Program example

LD	IL
 <pre> %I0.0.0 +-- POSP_OR +-- POSP_OR +-- REQ +-- DONE +-- BASE -> BASE +-- SLOT -> SLOT +-- AXIS -> AXIS +-- OVR -> OVR +-- %Q0.1.0 +-- () --- OR_STAT +-- OR_ACT +-- OR_STAT -> STAT +-- OR_ACT -> ACT </pre>	<pre> CAL POSP_OR POSP_OR REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS OVR := OVR LD POSP_OR.DONE ST %Q 0.1.0 LD POSP_OR.STAT ST OR_STAT LD POSP_OR.ACT ST OR_ACT </pre>

POSP_ORG

G3F-POPA, G4F-POPA(AXIS=0) Zero point return

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description		
	Input REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only)	Output DONE : On if the function block is executed without error and off if ACT is on. STAT : Display the error code generated during the function block execution. ACT : On if the instruction completion signal is received from G3F-POPA or G4F-POPA and off if the instruction is used according to REQ condition.	

Function

Instruction to find the machine zero point as the direction and speed set by parameter. The machine zero point return operation is completed when receives the zero point return completion signal.

Program example

LD	IL
	<pre> CAL POSP_ORG POSP_ORG REQ : = %I0.0.0 BASE : = BASE SLOT : = SLOT AXIS : = AXIS LD POSP_ORG.DONE ST %Q 0.1.0 LD POSP_ORG.STAT ST ORG_STAT LD POSP_ORG.ACT ST ORG_ACT </pre>

POSP_PRE

G3F-POPA, G4F-POPA(AXIS=0) Preset

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description
<pre> graph LR REQ[REQ] --> DONE[DONE] BASE[BASE] --> BASE[BASE] SLOT[SLOT] --> SLOT[SLOT] AXIS[AXIS] --> AXIS[AXIS] PRESET[PRESET] --> PRE_STAT[PRE_STAT] </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) PRESET: Set the data including sign(-16,744,447 ~ +16,744,447) to change current position to certain value. <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and hold on till next function block is executed. STAT : Display the error code generated during the function block execution.

Function

Instruction to change current position to certain value within the range of -16,744,447 ~ +16,744,447.

Program example

LD	IL
<pre> graph LR I00[%I0.0.0] --- POSP_REQ[POSP_PRE REQ] POSP_DONE[POSP_PRE DONE] --- Q01[%Q0.1.0] POSP_BASE[POSP_PRE BASE] --- BASE[BASE] POSP_SLOT[POSP_PRE SLOT] --- SLOT[SLOT] POSP_AXIS[POSP_PRE AXIS] --- AXIS[AXIS] POSP_PRESET[POSP_PRE PRESET] --- PRESET[PRESET] </pre>	<pre> CAL POSP_PRE REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS PRESET := PRESET LD POSP_PRE.DONE ST %Q 0.1.0 LD POSP_PRE.STAT ST PRE_STAT </pre>

POSP_RES

G3F-POPA, G4F-POPA(AXIS=0) Error Reset

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description
<pre> graph LR subgraph FB [POSP_RES] direction TB R[REQ] --> FB B1[BASE] --> FB S1[SLOT] --> FB A1[AXIS] --> FB D1[DONE] --> FB S2[STAT] --> FB end R --- FB B1 --- FB S1 --- FB A1 --- FB D1 --- FB S2 --- FB </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and off if ACT is on. STAT : Display the error code generated during the function block execution.

Function

Instruction to reset the error generated at G3F-POPA or G4F-POPA module. However, the output prohibit status can not be released. For this, use the POSP_OFF.

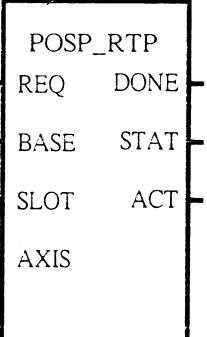
Program example

LD	IL
<pre> graph LR I0["%I0.0.0"] --> POSP[POSP_RES] POSP --> Q0["%Q0.1.0"] POSP -- REQ --> C1(()) C1 --> POSP POSP -- BASE --> C1 POSP -- SLOT --> C1 POSP -- AXIS --> C1 C1 --> RES_STAT["RES_STAT"] </pre>	<pre> CAL POSP_RES POSP_RES REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS LD POSP_RES.DONE ST %Q 0.1.0 LD POSP_RES.STAT ST RES_STAT </pre>

POSP RTP

G3F-POPA, G4F-POPA(AXIS=0) Return to Position

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description	
 <pre> graph LR subgraph FB [POSP_RTP] direction TB IN_REQ[REQ] --- OUT_DONE[DONE] IN_BASE[BASE] --- OUT_STAT[STAT] IN_SLOT[SLOT] --- OUT_ACT[ACT] IN_AXIS[AXIS] --- OUT_BASE[BASE] end </pre>	Input <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) 	Output <ul style="list-style-type: none"> DONE : On if the function block is executed without error and off if ACT is on. STAT : Display the error code generated during the function block execution. ACT : On if receives the order processing complete signal from G3F-POPA or G4F-POPA and off if the instruction is used according to REQ condition.

Function

Instruction to return the position before manual operation start when the position is changed by manual operation.

■ Program example

LD	IL
<pre> %I0.0.0 POSP_RTP POSP_RTP %Q0.1.0 REQ DONE () BASE STAT SLOT RTP_STAT AXIS RTP_ACT </pre>	<p>CAL POSP_RTP POSP_RTP</p> <p>REQ := %I0.0.0</p> <p>BASE := BASE</p> <p>SLOT := SLOT</p> <p>AXIS := AXIS</p> <p>LD POSP_RTP.DONE</p> <p>ST %Q0.1.0</p> <p>LD POSP_RTP.STAT</p> <p>ST RTP_STAT</p> <p>LD POSP_RTP.ACT</p> <p>ST RTP_ACT</p>

POSP_SMC

G3F-POPA, G4F-POPA(AXIS=0) Next execution data number change

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description
<pre> graph LR subgraph FB [POSP_SMC] direction TB R1[REQ] --- FB B1[BASE] --- FB S1[SLOT] --- FB A1[AXIS] --- FB STS1[ST_SET] --- FB D1[DONE] --- FB S2[STAT] --- FB S3[SMC_STAT] --- FB end </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) ST_SET : Change the operation data no. at next instruction within the range of 0~299. <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and on till next execution. STAT : Display the error code generated during the function block execution.

Function

Instruction to change the operation data No. that will be processed by the next instruction within the range of 0~299.

Program example

LD	IL
<pre> graph LR C1(()) --- R1[REQ] R1 --- FB1[POSP_SMC] FB1 --- D1[DONE] FB1 --- S1[STAT] S1 --- SMC_STAT[SMC_STAT] </pre>	<pre> CAL POSP_SMC POSP_SMC REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS ST_SET := ST_SET LD POSP_SMC.DONE ST %Q 0.1.0 LD POSP_SMC.STAT ST SMC_STAT </pre>

POSP_SRD

G3F-POPA, G4F-POPA(AXIS=0) Bit information reading of current operation status

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

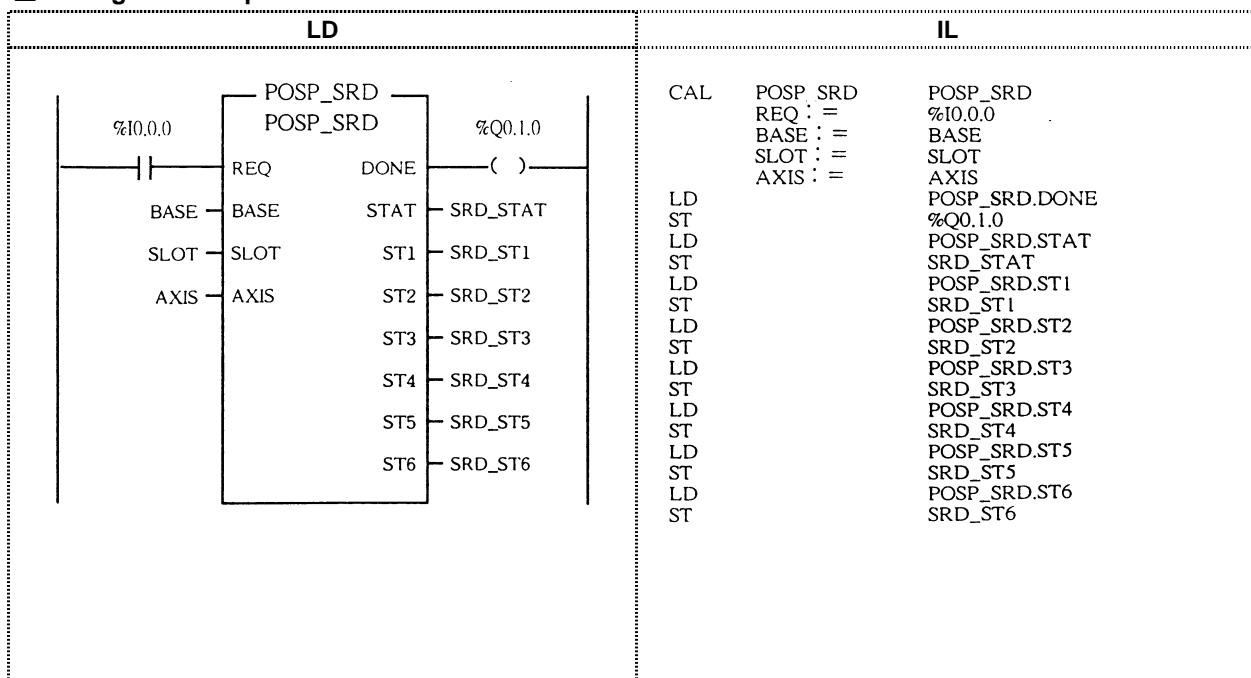
Function block		Description																																																								
		Input REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) Output DONE : On if the function block is executed without error and off if hold on till next function block is executed. STAT : Display the error code generated during the function block execution. ST <table border="1"> <thead> <tr> <th>ST1 content</th> <th>ST2 content</th> <th>ST3 content</th> </tr> </thead> <tbody> <tr><td>[0] Dwell state</td><td>Upper limit</td><td>Not used</td></tr> <tr><td>[1] Decel state</td><td>Lower limit</td><td>FWD/BWD</td></tr> <tr><td>[2] Static state</td><td>Emergency stop</td><td>ZONE#1</td></tr> <tr><td>[3] Accel state</td><td>Pulse output prohibit</td><td>ZONE#2</td></tr> <tr><td>[4] Stop state</td><td>Inching completion</td><td>ZONE#3</td></tr> <tr><td>[5] Zero state</td><td>Teaching completion</td><td>Repeat operation completion</td></tr> <tr><td>[6] Positioning state</td><td>JOG low-speed operation</td><td>Positioning stat completion</td></tr> <tr><td>[7] Interpolation state(G4F-POPA is not used)</td><td>JOG high-speed operation</td><td>M Code On</td></tr> <tr> <th>ST4 content</th> <th>ST5 content</th> <th>ST6 content</th> </tr> <tr><td>[0] Zero compensation</td><td>Stop</td><td>Not used</td></tr> <tr><td>[1] Backlash compensation</td><td>Upper limit(HW)</td><td>Error</td></tr> <tr><td>[2] Next Move processing</td><td>Lower limit(HW)</td><td>Position passing signal</td></tr> <tr><td>[3] Override processing</td><td>Dog signal(HW)</td><td>Busy</td></tr> <tr><td>[4] Not used</td><td>Zero point signal(HW)</td><td>Positioning completion</td></tr> <tr><td>[5] Decel stop and completion</td><td>Not used</td><td>Zero point return completion</td></tr> <tr><td>[6] Speed teaching completion</td><td>Not used</td><td>Zero point not defined</td></tr> <tr><td>[7] Speed change completion</td><td>Emergency stop(HW)</td><td>Not used</td></tr> </tbody> </table>			ST1 content	ST2 content	ST3 content	[0] Dwell state	Upper limit	Not used	[1] Decel state	Lower limit	FWD/BWD	[2] Static state	Emergency stop	ZONE#1	[3] Accel state	Pulse output prohibit	ZONE#2	[4] Stop state	Inching completion	ZONE#3	[5] Zero state	Teaching completion	Repeat operation completion	[6] Positioning state	JOG low-speed operation	Positioning stat completion	[7] Interpolation state(G4F-POPA is not used)	JOG high-speed operation	M Code On	ST4 content	ST5 content	ST6 content	[0] Zero compensation	Stop	Not used	[1] Backlash compensation	Upper limit(HW)	Error	[2] Next Move processing	Lower limit(HW)	Position passing signal	[3] Override processing	Dog signal(HW)	Busy	[4] Not used	Zero point signal(HW)	Positioning completion	[5] Decel stop and completion	Not used	Zero point return completion	[6] Speed teaching completion	Not used	Zero point not defined	[7] Speed change completion	Emergency stop(HW)	Not used
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[] : Indicate ARRAY variable and number in the parenthesis is the element number.

Function

Function block to monitor current operation status of G3F-POPA or G4F-POPA module by bit information.

Program example



POSP_TEA

G3F-POPA, G4F-POPA(AXIS=0) Position Teaching

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description	
	Input REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) ST_SET : Set the operation data no. for position teaching.(0~299) PRESET: Set the position address for position teaching(-16,744,447 ~ +16,744,447).	Output DONE : On if the function block is executed without error and hold on till next function block is executed. STAT : Display the error code generated during the function block execution.

Function

Set the position address of certain operation data. The zero point must have defined before.

Program example

LD	IL
	<pre> CAL POSP_TEA POSP_TEA REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS ST_SET := ST_SET PRESET := PRESET LD POSP_TEA.DONE ST %Q 0.1.0 LD POSP_TEA.STAT ST TEA_STAT </pre>

POSP_TMP

Deceleration stop

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description
	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and off if ACT is ON. STAT : Display the error code generated during the function block execution or the error of G3F-POPA or G4F-POPA. ACT : On if receives the order processing complete signal from G3F-POPA or G4F-POPA and off if the instruction is used according to REQ condition.

Function

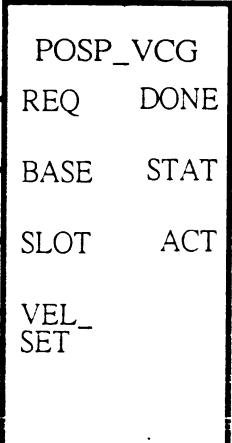
Instruction to stop G3F-POPA during operation. If the function block relating stop is processed by POSP_AST, DONE condition of POSP_AST function block is not on. The machine will be operated again by toggling the function block input REQ of POSP_AST.

Program example

LD	IL
	<pre> CAL POSP_TMP POSP_TMP REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS POSP_TMP.DONE %Q0.1.0 POSP_TMP.STAT POSP_TMP.STAT TMP_STAT POSP_TMP.STAT POSP_TMP.STAT TMP_ACT ST LD ST LD ST </pre>

POSP VCG

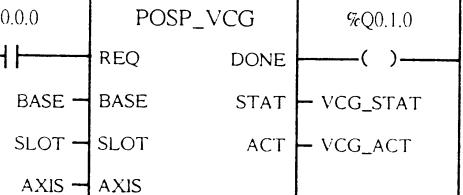
Speed change G3F-POPA, G4F-POPA(AXIS=0)	Product	GM1	GM2	GM3	GM4	GM5
	Applicable	●	●	●	●	

Function block	Description
 <pre> graph LR subgraph FB [POSP_VCG] direction TB R1[REQ] --- P1[DONE] B1[BASE] --- P2[STAT] S1[SLOT] --- P3[ACT] V1[VEL_SET] --- P4[DONE] end </pre> <p>UINT VEL_SET</p>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) VEL_SET: Set current speed to the speed value to be changed. <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and off if ACT is ON. STAT : Display the error code generated during the function block execution. ACT : On if receives the order processing complete signal from G3F-POPA or G4F-POPA and off if the instruction is used according to REQ condition.

■ Function

Instruction to change the speed during operation under the static speed only. Available at single operation, repeat operation, JOG and zero point return in high-speed operation.

■ Program example

LD	IL
 <pre> LD POSP_VCG POSA_VCG REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS VEL_SET := VEL_SET LD POSP_VCG.DONE ST %Q 0.1.0 LD POSP_VCG.STAT ST VCG_STAT LD POSP_VCG.ACT ST VCG_ACT </pre>	<pre> CAL POSP_VCG POSA_VCG REQ := %I0.0.0 BASE := BASE SLOT := SLOT AXIS := AXIS VEL_SET := VEL_SET LD POSP_VCG.DONE ST %Q 0.1.0 LD POSP_VCG.STAT ST VCG_STAT LD POSP_VCG.ACT ST VCG_ACT </pre>

POSP_VLT

Speed Teaching

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●	●	

Function block	Description
<pre> graph LR I1[REQ] --> FB[POSP_VLT] I2[BASE] --> FB I3[SLOT] --> FB I4[VEL_NO] --> FB I5[VEL_SET] --> FB FB -- DONE --> O1[DONE] FB -- STAT_X --> O2[STAT_X] FB -- STAT_Y --> O3[STAT_Y] FB -- ACT --> O4[ACT] </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-POPA or G4F-POPA module installation base location number SLOT : Slot location number of G3F-POPA or G4F-POPA module installation base AXIS : 0: X-axis operation, 1: Y-axis operation(G3F-POPA only) VEL_NO: Set the speed data no. for speed teaching.(0~129) VEL_SET: Set the speed value for speed teaching. (1~20,000: Pulse unit) <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block execution is finished without error and off if hold on till next function block is executed. STAT_X: Display the error code generated during the function block execution. STAT_Y: Status display, or display the error of G3F-POPA module. ACT : On if receives the order processing complete signal from G3F-POPA and G4F-POPA and off if the instruction is used according to REQ condition.

Function

The speed teaching instruction sets certain speed to the preset value of speed data no.

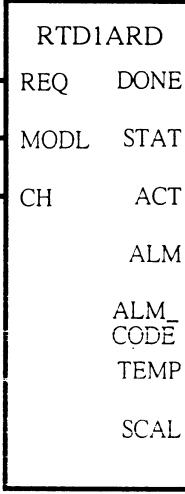
Program example

LD	IL
<pre> graph LR I1[%I0.0.0] --> FB[POSP_VLT] FB -- DONE --> O1[%Q0.1.0] FB -- STAT_X --> O2[VLT_STATX] FB -- STAT_Y --> O3[VLT_STATY] FB -- ACT --> O4[VLT_ACT] </pre>	<pre> CAL POSP_VLT POSA_VLT REQ := %I0.0.0 BASE := BASE SLOT := SLOT VEL_NO := VEL_NO VEL_SET := VEL_SET POSP_VLT.DONE %Q0.1.0 POSP_VLT.STAT_X VLT_STAT_X POSP_VLT.STAT_Y VLT_STAT_Y POSP_VLT.ACT VLT_ACT </pre>

RTD1ARD

G5F-RD1A Temperature change value reading(Array type)					
	Product	GM1	GM2	GM3	GM4 GM5

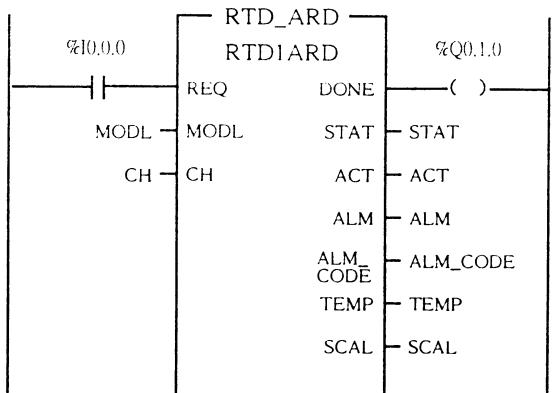
Applicable					
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Function block	Description
 <p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request MODL : G5F-RD1A module location number Note 1) CH : Assign the channel to read the temperature change value. Assign the respective element value to '1' for channel. <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and Off if the error occurs or function block execution request is not generated. STAT : Error status during the function block execution. Note 2) ACT : Channel display that read the conversion value after completing the function block. The element value of the channel will be '1'. Note 3) ALM : Error mark display of each channel during operation. The element value of the channel, which the error occurs, will be '1'. Note 3) ALM_CODE: Error status display of each channel during operation. TEMP : Temperature change value (-200.0 ~ +600.0 °C). Read 10 times of actual temperature for each channel's conversion value. Note 3) SCAL : Convert the temperature change value (-200.0 ~ +600.0 °C) to the scaling of 0~16000 range.

Function

Read the operation status of each channel and temperature change value that G5F-RD1A module outputs during operation.

Program example

LD	IL
	<pre> CAL RTD1ARD REQ := %I0.0.0 MODL := MODL CH := CH LD RTD_ARD.DONE ST %Q0.1.0 LD RTD_ARD.STAT ST STAT LD RTD_ARD.ACT ST ACT LD RTD_ARD.AL ST ALM LD RTD_ARD.AL_CODE ST ALM_CODE LD RTD_ARD.TEMP ST TEMP LD RTD_ARD.SCAL ST SCAL </pre>

RTD1INI

G5F-RD1A Module initialization

Product	GM1	GM2	GM3	GM4	GM5
Applicable					●

Function block	Description
	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge MODL : G5F-RD1A module location number Note 1) CH : Assign respective channel. Assign the respective element value to '1' for channel. Note 1) TYPE : Assign the sensor type of each channel. ('0':Pt100, '1':Jpt100) <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and holds on till next function block execution is requested. However, Off if the error occurs during executing the function block. STAT : Error status display during the function block execution. Note 1) ACT : Channel display that executed the data writing after completing the function block. The element value of the channel will be '1'. <p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p>

■ Function

Set the preset value for each channel and arrange the operation to operate G5F-RD1A module.

■ Program example

LD	IL
	<pre> CAL RTD1INI RTD_INI REQ := %I0.0.0 MODL := MODL CH := CH TYPE := TY LD RTD_INI.DONE ST %Q 0.1.0 LD RTD_INI.STAT ST STAT LD RTD_INI.ACT ST ACT </pre>

RTD1RD

G5F-RD1A Temperature change value reading(Single type)
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Product	GM1	GM2	GM3	GM4	GM5
Applicable					●

Function block	Description
<pre> graph LR REQ[REQ] --> RTD1RD[RTD1RD] RTD1RD -- DONE --> Q010["%Q0.1.0"] RTD1RD -- MODL --> Q011["%Q0.1.1"] RTD1RD -- CH --> Q011 RTD1RD -- SCAL --> Q011 RTD1RD -- STAT --> LD1[LD] RTD1RD -- TEMP --> LD2[LD] </pre>	<p>Input REQ : Function block execution request MODL : G5F-RD1A module location number CH : Assign the channel number to read the temperature change value(0,1).</p> <p>Output DONE : On if the function block is executed without error and Off if the error occurs or function block execution request is not generated.</p> <p>Note 2) STAT : Error status during the function block execution.</p> <p>Note 2) ALM : Error mark display of each channel during operation.</p> <p>Note 2) TEMP : Temperature change value(-200.0 ~ +600.0°C). Read 10 times of actual temperature for each channel's conversion value.</p> <p>Note 2) SCAL : Convert the temperature change value (-200.0 ~ +600.0°C) to the scaling of 0~16000 range.</p>

Function

Read the operation status and temperature change of each channel value that G5F-RD1A module outputs during operation.

Program example

LD	IL
<pre> LD --> coil(%I0.0) --> RTD1RD[RTD1RD] RTD1RD -- MODL --> coil(%Q0.1.1) RTD1RD -- CH --> coil(%Q0.1.1) RTD1RD -- DONE --> coil(%Q0.1.0) RTD1RD -- STAT --> LD1[LD] RTD1RD -- ALM --> LD2[LD] RTD1RD -- TEMP --> LD3[LD] RTD1RD -- SCAL --> LD4[LD] </pre>	<pre> CAL RTD1RD RTD_RD REQ := %I0.0.0 MODL := MODL CH := CH LD RTD_RD.DONE %Q 0.1.0 ST LD RTD_RD.STAT STAT ST LD RTD_RD.ALM %Q 0.1.1 ST LD RTD_RD.TEMP TEMP ST LD RTD_RD.SCAL SCAL ST </pre>

RTD2ARD

G4F-RD2A Temperature change value reading(Array type)

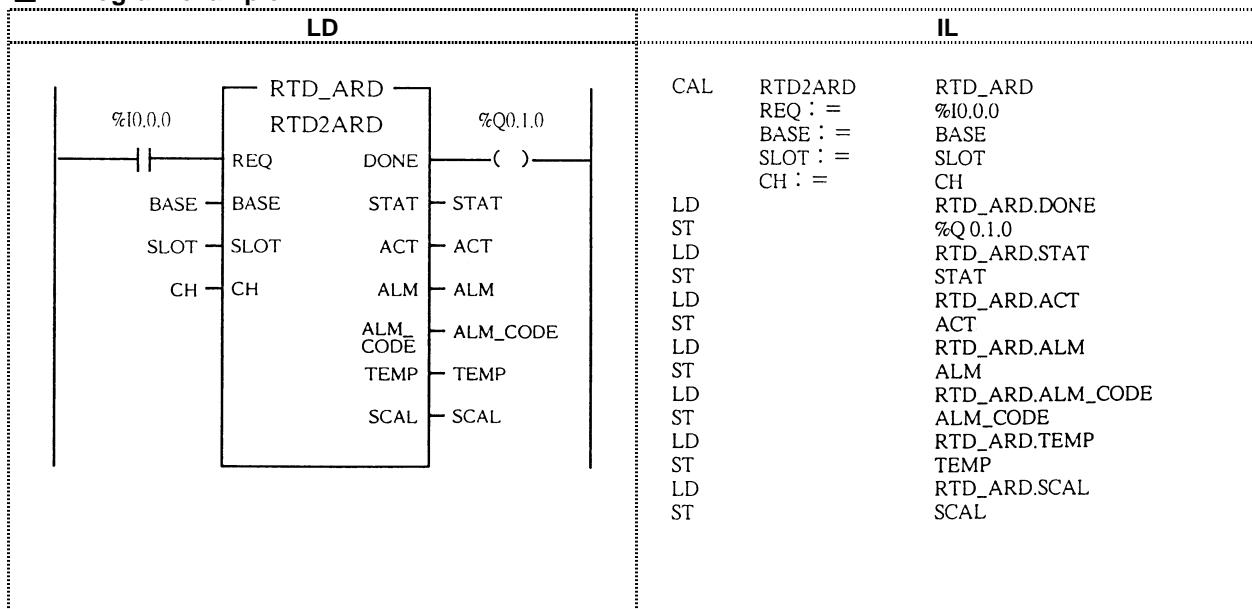
Product	GM1	GM2	GM3	GM4	GM5
Applicable				●	

Function block	Description
<p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request BASE : G4F-RD2A module installation base location number SLOT : Slot location number of G4F-RD2A module installation base Note 1) CH : Assign the channel to be used. Assign the respective element value to '1' for channel. <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and Off if the error occurs or function block execution request is not generated. Note 2) STAT : Error status during the function block execution. Note 3) ACT : Channel display that read the conversion value after completing the function block. The element value of the channel will be '1'. Note 3) ALM : Error mark display of each channel during operation. The element value of the channel, which the error occurs, will be '1'. Note 3) ALM_CODE: Error status display of each channel during operation. Note 3) TEMP : Temperature change value (-200.0 ~ +600.0 °C). Read 10 times of actual temperature for each channel's conversion value. Note 3) SCAL : Convert the temperature change value (-200.0 ~ +600.0 °C) to the scaling of 0~16000 range.

■ Function

Read the operation status and temperature change of each channel value that G4F-RD2A module outputs during operation.

■ Program example



RTD2INI

G4F-RD2A Module initialization	Product	GM1	GM2	GM3	GM4	GM5
Applicable					●	

Function block	Description
<p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G4F-RD2A module installation base location number SLOT : Slot location number of G4F-RD2A module installation base CH : Assign the channel to be used. Assign the respective element value to '1' for channel. TYPE : Assign the sensor type of each channel. ('0':Pt100, '1':Jpt100) <p>Note 1)</p> <ul style="list-style-type: none"> ACT : Channel display that executed the data writing after completing the function block. The element value of the channel will be '1'. <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and holds on till next function block execution is requested. However, Off if the error occurs during executing the function block. STAT : Error status display during the function block execution. ACT : Channel display that executed the data writing after completing the function block. The element value of the channel will be '1'.

■ Function

Set the preset value for each channel and arrange the operation to operate G4F-RD2A module.

■ Program example

LD	IL
	<pre> CAL RTD2INI RTD_INI REQ := %I0.0.0 BASE := BASE SLOT := SLOT CH := CH TYPE := TY LD RTD_INI.DONE ST %Q 0.1.0 LD RTD_INI.STAT ST STAT LD RTD_INI.ACT ST ACT </pre>

RTD2RD

G4F-RD2A Temperature change value reading(Single type))

Product	GM1	GM2	GM3	GM4	GM5
Applicable				●	

Function block	Description
<pre> graph LR A[RTD2RD] -- REQ --> B(()) A -- DONE --> C{ } A -- BASE --> D[RTD_RD] A -- STAT --> D A -- SLOT --> D A -- CH --> D </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request BASE : G4F-RD2A module installation base location number SLOT : Slot location number of G4F-RD2A module installation base Note 1) CH : Assign the channel to be used(0~3). <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and Off if the error occurs or function block execution request is not generated. Note 2) STAT : Error status display during the function block execution. Note 2) ALM : Error mark display of each channel during operation. Note 2) TEMP : Temperature change value(-200.0 ~ +600.0°C). Read 10 times of actual temperature for each channel's conversion value. Note 2) SCAL : Convert the temperature change value (-200.0 ~ +600.0°C) to the scaling of 0~16000 range.

Function

Read the operation status and temperature change of each channel value that G4F-RD2A module outputs during operation.

Program example

LD	IL
<pre> graph LR I1[%I0.0.0] --> R1[RTD2RD] R1 -- REQ --> C1{ } R1 -- DONE --> C1 R1 -- BASE --> R2[RTD_RD] R1 -- STAT --> R2 R1 -- SLOT --> R2 R1 -- CH --> R2 C1 --> Q1[%Q0.1.0] </pre>	<pre> CAL RTD2RD RTD_RD REQ := %I0.0.0 BASE := BASE SLOT := SLOT CH := CH LD RTD2RD.DONE ST %Q0.1.0 LD RTD_RD.STAT ST STAT LD RTD_RD.ALM ST %Q0.1.1 LD RTD_RD.TEMP ST TEMP LD RTD_RD.SCAL ST SCAL </pre>

RTD3ARD

G3F-RD3A Temperature change value reading(Array type)					
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Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●		

Function block	Description
<p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request BASE : G3F-RD3A module installation base location number SLOT : Slot location number of G3F-RD3A module installation base Note 1) CH : Assign the channel to be used. Assign the respective element value to '1' for channel. <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and Off if the error occurs or function block execution request is not generated. Note 2) STAT : Error status during the function block execution. Note 3) ACT : Channel display that executed the data reading after completing the function block. The element value of the channel will be '1'. Note 3) ALM : Error mark display of each channel during operation. Note 3) ALM_CODE: Error status display of each channel during operation. Note 3) TEMP : Temperature change value(-200.0 ~ +600.0°C). Read 10 times of actual temperature for each channel's conversion value. Note 3) SCAL : Convert the temperature change value (-200.0 ~ +600.0°C) to the scaling of 0~16000 range.

Function

Read the operation status and temperature change of each channel value that G3F-RD3A module Outputs during operation.

Program example

LD	IL
	<pre> CAL RTD3ARD REQ := %I0.0.0 BASE := BASE SLOT := SLOT CH := CH LD RTD_ARD.DONE ST %Q0.1.0 LD RTD_ARD.STAT ST STAT LD RTD_ARD.ACT ST ACT LD RTD_ARD.AL ST ALM LD RTD_ARD.AL_CODE ST ALM_CODE LD RTD_ARD.TEMP ST TEMP LD RTD_ARD.SCAL ST SCAL </pre>

RTD3INI

G3F-RD3A Module initialization

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●		

Function block	Description	
<pre> graph LR REQ[REQ] --> RTD3INI[RTD3INI] RTD3INI -- DONE --> DONE[DONE] RTD3INI -- BASE --> BASE[BASE] RTD3INI -- SLOT --> SLOT[SLOT] RTD3INI -- CH --> CH[CH] RTD3INI -- TYPE --> TYPE[TYPE] </pre>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge BASE : G3F-RD3A module installation base location number SLOT : Slot location number of G3F-RD3A module installation base CH : Assign the channel to be used. Assign the respective element value to '1' for channel. TYPE : Assign the sensor type of each channel. ('0':Pt100, '1':Jpt100) <p>Note 1)</p>	
	<p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and holds on till next function block execution is requested. However, Off if the error occurs during executing the function block. STAT : Error status display during the function block execution. ACT : Channel display that executed the data writing after completing the function block. The element value of the channel will be '1'. <p>Note 1)</p>	

[] : Indicate ARRAY variable and number in the parenthesis is the element number.

Function

Set the preset value for each channel and arrange the operation to operate G3F-RD3A module.

Program example

LD	IL
<pre> graph LR I00["%I0.0.0"] --> RTD3INI[RTD3INI] RTD3INI -- DONE --> Q010["%Q0.1.0"] </pre>	<pre> CAL RTD3INI RTD_INI REQ := %I0.0.0 BASE := BASE SLOT := SLOT CH := CH TYPE := TY LD RTD_INI.DONE ST %Q 0.1.0 LD RTD_INI.STAT ST STAT LD RTD_INI.ACT ST ACT </pre>

RTD3RD

G3F-RD3A Temperature change value reading(Single type)
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Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●		

Function block	Description
	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request BASE : G3F-RD3A module installation base location number SLOT : Slot location number of G3F-RD3A module installation base CH : Assign the channel to be used(0~7). <p>Output</p> <ul style="list-style-type: none"> DONE : On if the function block is executed without error and Off if the error occurs or function block execution request is not generated. STAT : Error status during the function block execution. ALM : Error mark display of each channel during operation. TEMP : Temperature change value (-200.0 ~ +600.0°C). Read 10 times of actual temperature for each channel's conversion value. SCAL : Convert the temperature change value (-200.0 ~ +600.0°C) to the scaling of 0~16000 range. <p><small>Note 2) ALM : Error mark display of each channel during operation.</small></p> <p><small>Note 2) TEMP : Temperature change value (-200.0 ~ +600.0°C). Read 10 times of actual temperature for each channel's conversion value.</small></p> <p><small>Note 2) SCAL : Convert the temperature change value (-200.0 ~ +600.0°C) to the scaling of 0~16000 range.</small></p>

■ Function

Read the operation status and temperature change of each channel value that G3F-RD3A module outputs during operation.

■ Program example

LD	IL
	<pre> CAL RTD3RD RTD_RD REQ := %I0.0.0 BASE := BASE SLOT := SLOT CH := CH LD RTD_RD.DONE ST %Q 0.1.0 LD RTD_RD.STAT ST STAT LD RTD_RD.ALM ST %Q 0.1.1 LD RTD_RD.TEMP ST TEMP LD RTD_RD.SCAL ST SCAL </pre>

RTDR2INI

G4F-RD2A Module initialization(For remote)

Product	GM1	GM2	GM3	GM4	GM5
Applicable				●	

Function block	Description
<p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge NET_NO: Slot location number(0~7) installed the communication module of local station(G4L-FUEA, G4L-FUOA) to send the function block ST_NO : Station number(0~63) of communication module (G4L-RBEA, G4L-RBOA) installed at remote I/O station BASE : G4F-RD2A module installation base location number SLOT : Slot location number of G4F-RD2A module installation base Note 1) CH : Assign the channel to be used. Set '1' for respective element value for channel setting. Note 1) TYPE : Assign the sensor type of each channel. ('0':Pt100, '1':Jpt100) <p>Output</p> <ul style="list-style-type: none"> NDR : On if the function block is executed without error and Off at next SCAN ERR : On when the error occurs during executing the function block. STAT : Error status display during the function block execution. Note 2) ACT : Channel display that execute data write after completing the function block. The element value of the channel will be '1'.

■ Function

Set the preset value for each channel and arrange the operation to operate G4F-RD2A module installed at remote station.

■ Program example

LD	IL
	<pre> LDN M0 AND A ST REQ CAL RTD_RINI REQ := RTD_RINI NET_NO := RTD_RINI.NET_NO ST_NO := RTD_RINI.ST_NO BASE := RTD_RINI.BASE SLOT := RTD_RINI.SLOT CH := RTD_RINI.CH TYPE := RTD_RINI.TYPE RTD_RINI.NDR := M0 RTD_RINI.ERR := %Q0.0.0 RTD_RINI.STAT := RTD_RINI.STAT RTD_RINI.ACT := RTD_RINI.ACT </pre>

RTDR2RD

G4F-RD2A Temperature change value reading(For remote)

Product	GM1	GM2	GM3	GM4	GM5
Applicable				●	

Function block	Description
	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge NET_NO : Slot location number(0~7) installed the communication module of local station(G4L-FUEA, G4L-FUOA) to send the function block ST_NO : Station number(0~63) of communication module(G4L-RBEA, G4L-RBOA) installed at remote I/O station BASE : G4F-RD2A module installation base location number SLOT : Slot location number of G4F-RD2A module installation base CH : Assign the channel to be used. Set '1' for respective element value for channel setting. <p>Note 1)</p> <ul style="list-style-type: none"> ACT : Channel display that read the conversion value after completing the function block. The element value of the channel will be '1'. ALM : Error mark display of each channel during operation. The element value of the channel will be '1'. ALM_CODE: Error status display of each channel during operation. TEMP : Temperature change value (-200.0 ~ +600.0°C). Read 10 times of actual temperature for each channel's conversion value. SCAL : Convert the temperature change value (-200.0 ~ +600.0°C) to the scaling of 0~16000 range. <p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p> <p>Output</p> <ul style="list-style-type: none"> NDR : On if the function block is executed without error and Off at next SCAN ERR : On when the error occurs during executing the function block. STAT : Error status display during the function block execution. ACT : Channel display that read the conversion value after completing the function block. The element value of the channel will be '1'. ALM : Error mark display of each channel during operation. ALM_CODE: Error status display of each channel during operation. TEMP : Temperature change value (-200.0 ~ +600.0°C). Read 10 times of actual temperature for each channel's conversion value. SCAL : Convert the temperature change value (-200.0 ~ +600.0°C) to the scaling of 0~16000 range.

Function

Read the operation status and temperature change value of each channel that G4F-RD2A at remote station outputs during operation.

Program example

LD	IL
	<pre> LD ANDN ST CAL RTDR2RD REQ := %Q0.0.0 NET_NO := %Q0.0.0 ST_NO := %Q0.0.0 BASE := %Q0.0.0 SLOT := %Q0.0.0 CH := %Q0.0.0 LD RTD_RRD.NDR ST B RTD_RRD.ERR %Q0.0.0 RTD_RRD.STAT RTD_RRD.ACT RTD_RRD.ALM ALM RTD_RRD.ALM_CODE ALM_CODE RTD_RRD.TEMP TEMP RTD_RRD.SCAL SCAL </pre>

RTDR3INI

G3F-RD3A Module initialization(For remote)

Product	GM1	GM2	GM3	GM4	GM5
Applicable	●	●	●		

Function block	Description
<p>[] : Indicate ARRAY variable and number in the parenthesis is the element number.</p>	<p>Input</p> <ul style="list-style-type: none"> REQ : Function block execution request at rising edge NET_NO : Slot location number(0~7) installed the communication module of local station(G3L-FUEA, G3L-FUOA) to send the function block ST_NO : Station number(0~63) of communication module(G3L-RBEA, G3L-RBOA) installed at remote I/O station BASE : G3F-RD3A module installation base location number SLOT : Slot location number of G3F-RD3A module installation base Note 1) CH : Assign the channel to be used. Set '1' for respective element value for channel setting. Note 1) TYPE : Assign the sensor type of each channel. ('0':Pt100, '1':Jpt100) <p>Output</p> <ul style="list-style-type: none"> NDR : On if the function block is executed without error and Off at next SCAN ERR : On when the error occurs during executing the function block. STAT : Error status display during the function block execution. Note 1) ACT : Channel display that execute data channel value after completing the function block. The element value of the channel will be '1'.

Function

Set the preset value for each channel and arrange the operation to operate G3F-RD3A module installed at remote station.

Program example

LD	IL
	<pre> LDN M0 AND A ST REQ CAL RTD_RINI REQ := RTD_RINI NET_NO := RTD_RINI.NET_NO ST_NO := RTD_RINI.ST_NO BASE := RTD_RINI.BASE SLOT := RTD_RINI.SLOT CH := RTD_RINI.CH TYPE := RTD_RINI.TYPE RTD_RINI.NDR := M0 LD RTD_RINI.ERR := %Q 0.0.0 LD RTD_RINI.STAT := RTD_RINI.STAT LD RTD_RINI.ACT := RTD_RINI.ACT </pre>