Chapter 3 General Specification

3.1 General Specification

General standard of communication module in GLOFA-GM series is as follows:

No.	ltem	Standard						Related standard	
1	Service Temp.	0 +55							
2	Storage Temp.	-25 +70							
3	Service Humidity	5 95%RH, dew should not fall.							
4	Storge Humidity	5 95%RH, dew should not fall.							
5	Internal Vibration								
		Frequency	Acceleration		Amplitude		Times		
		10 f< 57Hz	-		0.075mm				
		57 f 150Hz	9.8m	/ŝ	-				
		In case of continuous vibration X,Y,Z 10 times						IEC 61131-2	
		Frequency	Acceleration		Amplitude		for each direction		
		10 f< 57Hz	-		0.035mi	0.035mm			
		57 f 150Hz	4.8m/s(0	.5G)	-				
6	Internal Shock	 * Maximum shock acceleration:147m/s(15G) * Ack. time:11ms * Pulse waveform: a sine carrier wave pulse (X,Y,Z 3 times each for 3 directions) 						IEC 61131-2	
	Internal Noise	Square wave impulse noise	± 1,500V					Internal test standard of LG Industrial Systems.	
7		Dscharge of static electricity	Voltage : 4 kV(touch discharge)					IEC 61131-2, IEC 1000-4-2	
		Radial computer noise	27 ~ 500 MHz, 10 V/m					IEC 61131-2, IEC 1000-4-3	
		Fast transient /Burst noise	division	Power module	Digital in- /output (over24V)	/outpu Analog Comn	gital in- t(over24V) g in-/output nunication terface	IEC 61131-2, IEC 1000-4-4	
			Voltage	2 kV	1 kV	0.	25 kV		
8	E nvironment	There should not be corrosive dust.							
9	Service Altitude	Below 2000m							
10	Pollution level	Below 2							
11	Cooling system	Natural air cooling system							

[Table 3.1] General Standard

Remark

Note1) IEC (International Electrotechnical Commission)

International non-governmental organization promoting international cooperation on standardization of electric and electronic techniques. It also sets international standards, and evaluates, manages their suitability.

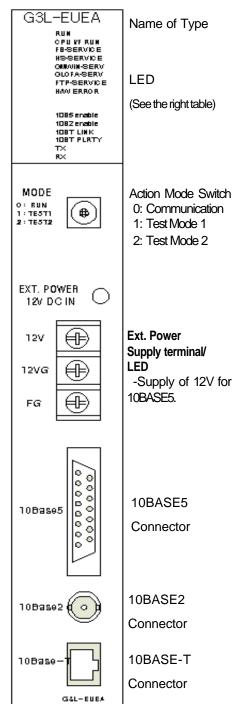
Note2) Pollution Level

An index showing the extent of pollution of service environment for a device which is crucial for its performance. The pollution level 2 means generally the status in which only non-conductible pollution occurs. But, conduction existence because of dewfall also means pollution level 2.

3.2 Structure and Components

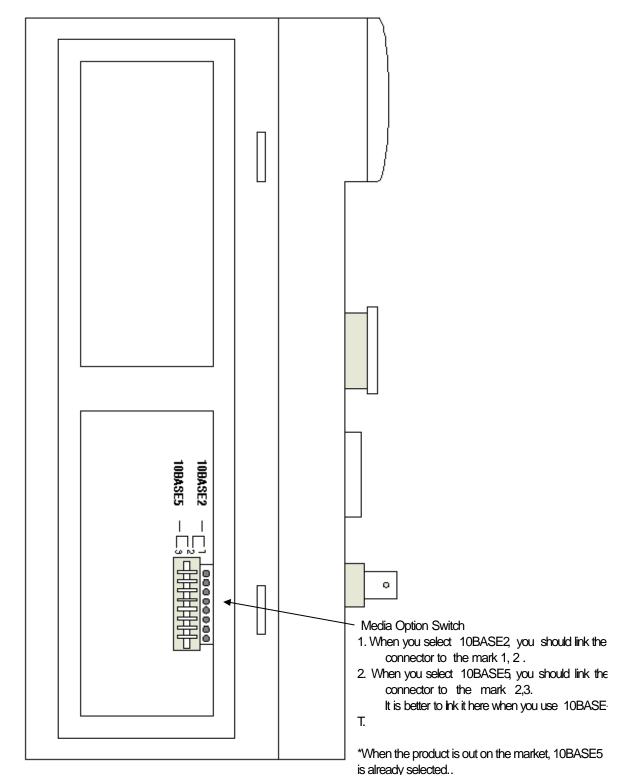
3.2.1 The Structure of G3L-EUEA

1) The Front part



LED No.	Module Front Mark	Description	
0	RUN	On when the power supply and sole initialize of module are normal.	
1	CPU I/F RUN	On when it can normally communicate with CPU module	
2	FB-SERVICE	Out at the service of function block.	
3	HS-SERVICE	Out at the service of high-speed link.	
4	GMMN- SERVICE	On when connecting with GMWIN service.	
5	GLOFA- SERVICE	On when connecting with dedicated service.	
6	FTP- SERVICE	On when connecting with FTP service.	
7	HW-ERROR	On when it is impossible for the module to recover an error by itself.	
8	-	No use.	
9	-	No use.	
10	10BASE5 Enable	On when it enables to use 10BASE5.	
11	10BASE2 Enable	On when it enables to use 10BASE2.	
12	10BASE-T LINK	On when able to link to 10BASE-T.	
13	10BASE-T PLRTY	On when connected polarity of 10BASE-T is normal.	
14	TX	Out when transporting data.	
15	RX	Out when receiving data.	

2) The Side part



3.2.2 The Structure of G4L-EUEA

1) The Front part

