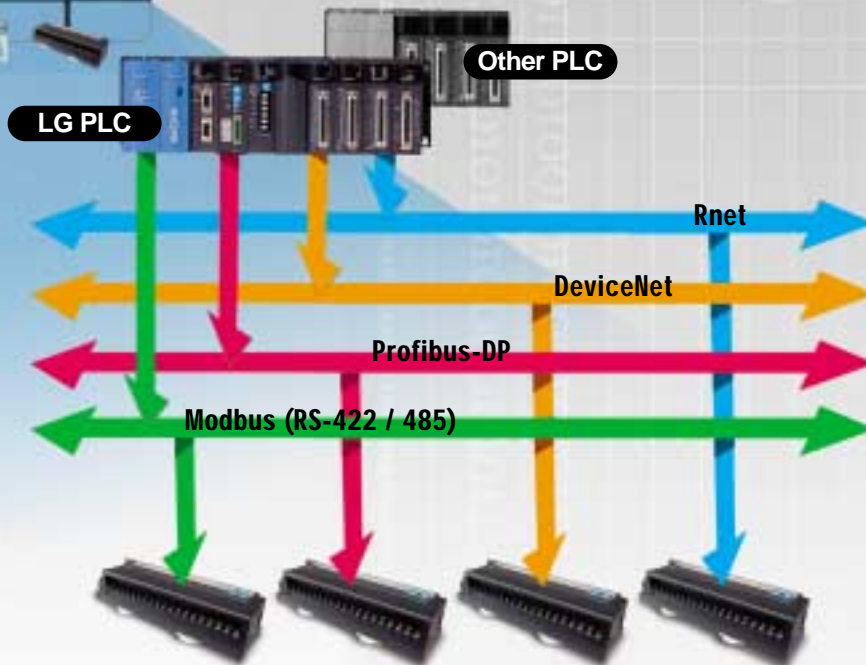


LG Smart I/O

New Solution for Field Networking



- Reduction in the amount of wiring
- Real-time control of distributed I/O devices
- Rnet, Profibus-DP, DeviceNet, Modbus (RS-422/485) support
- Various I/O modules (DC, TR, Relay types)
- Various Analog modules (AD, DA, Hybrid): Under development



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New Solution for Field Networking

● Specifications for I/O modules

Item	Input		Output			Mixed Input / Output	
	DC (Sink / Source)		TR (Sink)		Relay	DC (Sink / Source)	TR (Sink)
Points	16	32	16	32	16	16	16
Rated Input (Load Voltage)	DC24V		DC24V		DC24V / AC110V / 220V	DC24V	DC24V
Rated Input Current (Load Current)	7mA		0.1A / 2A		2A / 5A	7mA	0.1A / 2A
Response Time	off / on	under 3ms	under 0.5ms		under 10ms	under 3ms	under 0.5ms
	on / off	under 3ms	under 1ms		under 10ms	under 3ms	under 1ms
Common (points / COM)	16 / COM		16 / COM		8 / COM	16 / COM	16 / COM
Current Consumption	35mA	40mA	30mA	65mA	400mA	35mA	30mA
Supporting Network & Part Number	Rnet	GRL-D22A	GRL-D24A	GRL-TR2A	GRL-TR4A	GRL-RY2A	GRL-DT4A
	Profibus	GPL-D22A	GPL-D24A	GPL-TR2A	GPL-TR4A	GPL-RY2A	GPL-DT4A
	DeviceNet	GDL-D22A	GDL-D24A	GDL-TR2A	GDL-TR4A	GDL-RY2A	GDL-DT4A
	Modbus	GSL-D22A	GSL-D24A	GSL-TR2A	GSL-TR4A	GSL-RY2A	GSL-DT4A

● Specifications for Analog modules : under development (due this year)

Analog Input Module: 8Ch (4 ~ 20mA, 0 ~ 20mA, 1 ~ 5V, 0 ~ 10V)

Analog Output Module: 8Ch (Voltage type: 0 ~ 10V, Current type: 4 ~ 20mA)

Analog Input/Output Module: 4 Input (4 ~ 20mA, 1 ~ 5V) & 2 Output (0 ~ 20mA, 0 ~ 10V)

● Field Network Support

Item	Rnet	Profibus-DP	DeviceNet	Modbus
Protocol	LGIS Dedicated Rnet Protocol (Fnet for Remote)	Profibus-DP (RS-485 / EN50170)	DeviceNet	Modbus (RS-422 / 485)
Transmission speed	1Mbps	9.6kbps ~ 12Mbps	125 / 250 / 500kbps	2.4kbps ~ 38.4kbps
Transmission distance	750m/segment	100m ~ 1.2km	500 / 250 / 125m (Thin cable: 100m)	500m
Topology	BUS	BUS	Trunk & Drop	BUS
Transmission method	Token Pass & Broadcast	Token Pass & Master / Slave (Poll)	CSMA / NBA (Poll, Cyclic, COS, Strobe)	Master / Slave (Poll)
Max. number of stations	32 / segment (In 32 / Out 32)	32 / segment	64	32
Link capacity	2,048pt. / master (64 sta.* 32pt.)	1K* / master: -PUEA 7K* / master: -PUEB	2,048pt. / master	64pt. / station

K: kilobyte

● Dimensions

