

General Specifications

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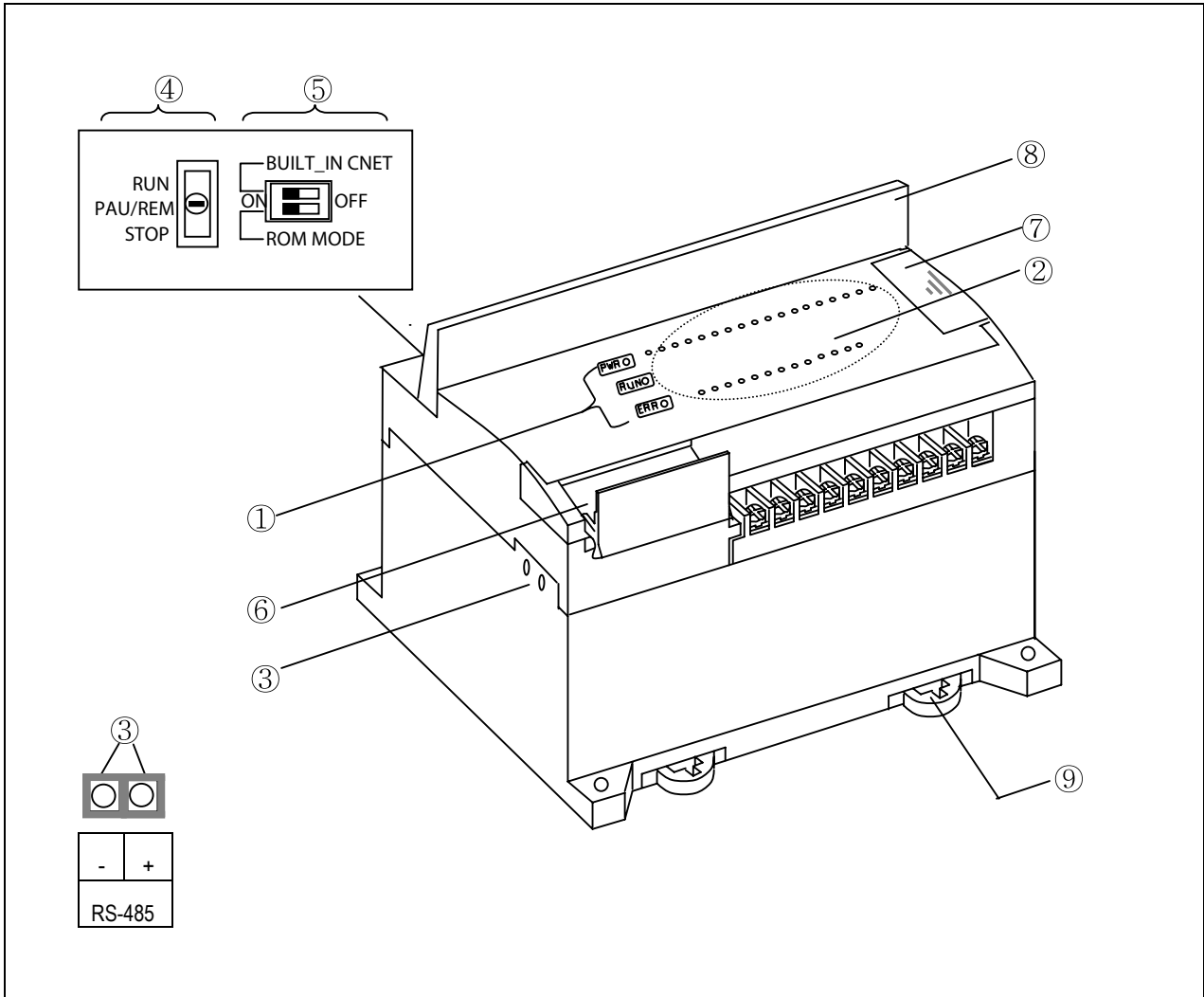
The following table shows the general specifications of the DR.N 1005-8105

No.	Item	Specifications				References
1	Operating ambient Temperature	0 ~ 55 °C				
2	Storage ambient Temperature	-25 ~ +70 °C				
3	Operating ambient Humidity	5 ~ 95%RH, non-condensing				
4	Storage ambient Humidity	5 ~ 95%RH, non-condensing				
5	Vibrations	Occasional vibration			-	IEC 61131-2
		Frequency	Acceleration	Amplitude	Sweep count	
		10 ≤ f < 57Hz	-	0.075mm	10 times for each X, Y, Z axis	
		57 ≤ f ≤ 150Hz	9.8m/s ² {1G}	-		
		Continuous vibration				
		Frequency	Acceleration	Amplitude		
10 ≤ f < 57Hz	-	0.035mm				
57 ≤ f ≤ 150Hz	4.9m/s ² {0.5G}	-				
6	Shocks	<ul style="list-style-type: none"> • Maximum shock acceleration: 147 m/s² {15G} • Duration time: 11ms • Pulse wave: half sine pulse (3 shocks per axis, on X, Y, Z axis) 				IEC 61131-2
7	Noise Immunity	Square wave Impulse noise	± 1,500 V			LGIS' Internal Standard
		Electronic discharge	Voltage: 4 kV (Discharge by contact)			IEC 61131-2, IEC 1000-4-2
		Radiated electromagnetic field noise	27 ~ 500 MHz, 10 V/m			IEC 61131-2, IEC 1000-4-3
		Fast transient & burst noise	Item	Power supply	Digital I/O (24V and up)	Digital I/O (less than 24V) Analog I/O Interface
Voltage	2kV		1kV	0.25kV		
8	Atmosphere	Free of corrosive gases and excessive dust				
9	Altitude	Up to 2,000m				
10	Pollution degree	2				
11	Cooling method	Air-cooling				

REMARK

- 1) IEC (International Electrotechnical Commission): An international civilian institute who establishes international standards in area of electric and electronics.
- 2) Pollution degree: An indicator, which indicates pollution degree, which determine insulation performance of equipment.
 - * Pollution degree 2 : Normally, only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation shall be expected.

Main Unit

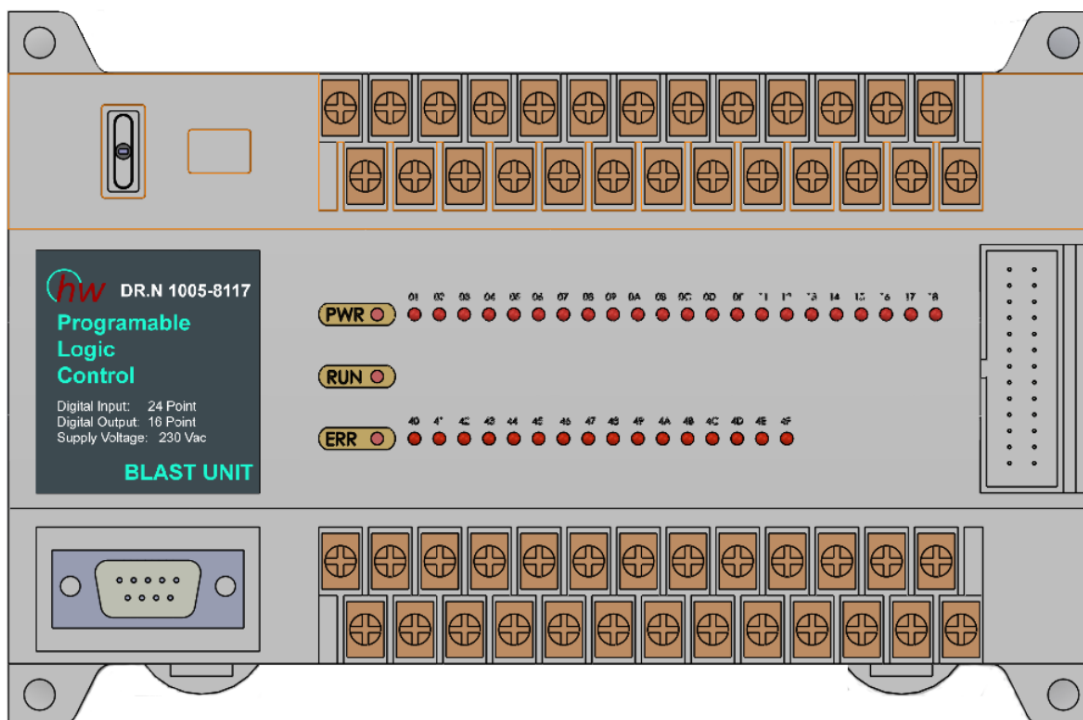


No.	Name	Description
①	PWR LED	Indicates status of power supply to the system <ul style="list-style-type: none"> • On : When the supplied power is normal • Off : When the supplied power is abnormal
	RUN LED	Indicates operating status of main unit <ul style="list-style-type: none"> • On : Indicates local key switch or remote running mode • Off : with the followings, LED turns off <ul style="list-style-type: none"> - When the supplied power to the main unit is abnormal. - While key switch is on stop mode - Detecting an error which makes operation stop
	ERR LED	Indicates operating status of CPU <ul style="list-style-type: none"> • Flickering : self-inspected error • Off: CPU is working normal.

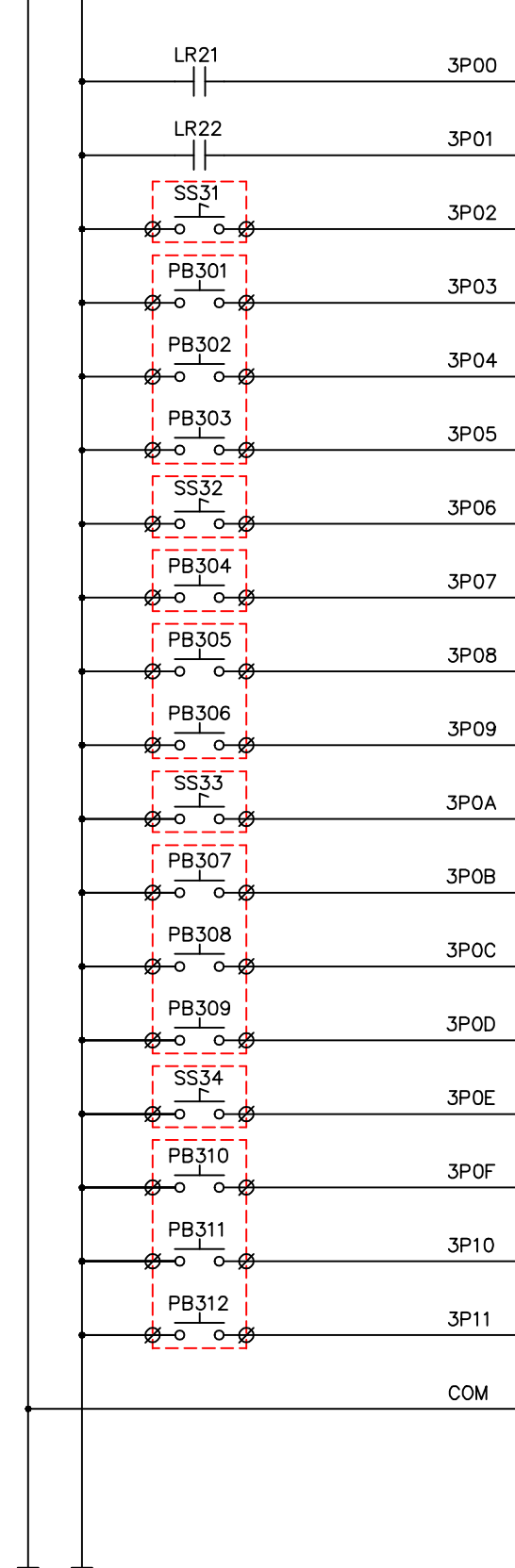
No	Name	Description
②	I/O LED	Indicates operating status of I/O
③	Built-in RS-485 connector (Except K7M-DR10/14UE)	2-pin connector for built-in RS-485 communications.
④	Key switch for mode creation (Except economic type)	Designates main unit's operation mode <ul style="list-style-type: none"> • RUN : Run program operation • STOP: Stop program operation • PAU / REM: usage of each modules are as follows: <ul style="list-style-type: none"> - PAUSE : temporary stopping program operation - REMOTE : designates remote driving
⑤	Dip-switch for Cnet I/F	See Chapter 5.
⑥	RS-232C connector	9-pin DIN connector to connect with external devices like KGLWIN
⑦	Expansion connector cover	Connector cover to connect with expansion unit
⑧	Terminal block cover	Protection cover for wiring of terminal block
⑨	Private hook DIN rail	Private part hook for DIN rail

Layout

DR.N 1005-8105



DC+ COM4

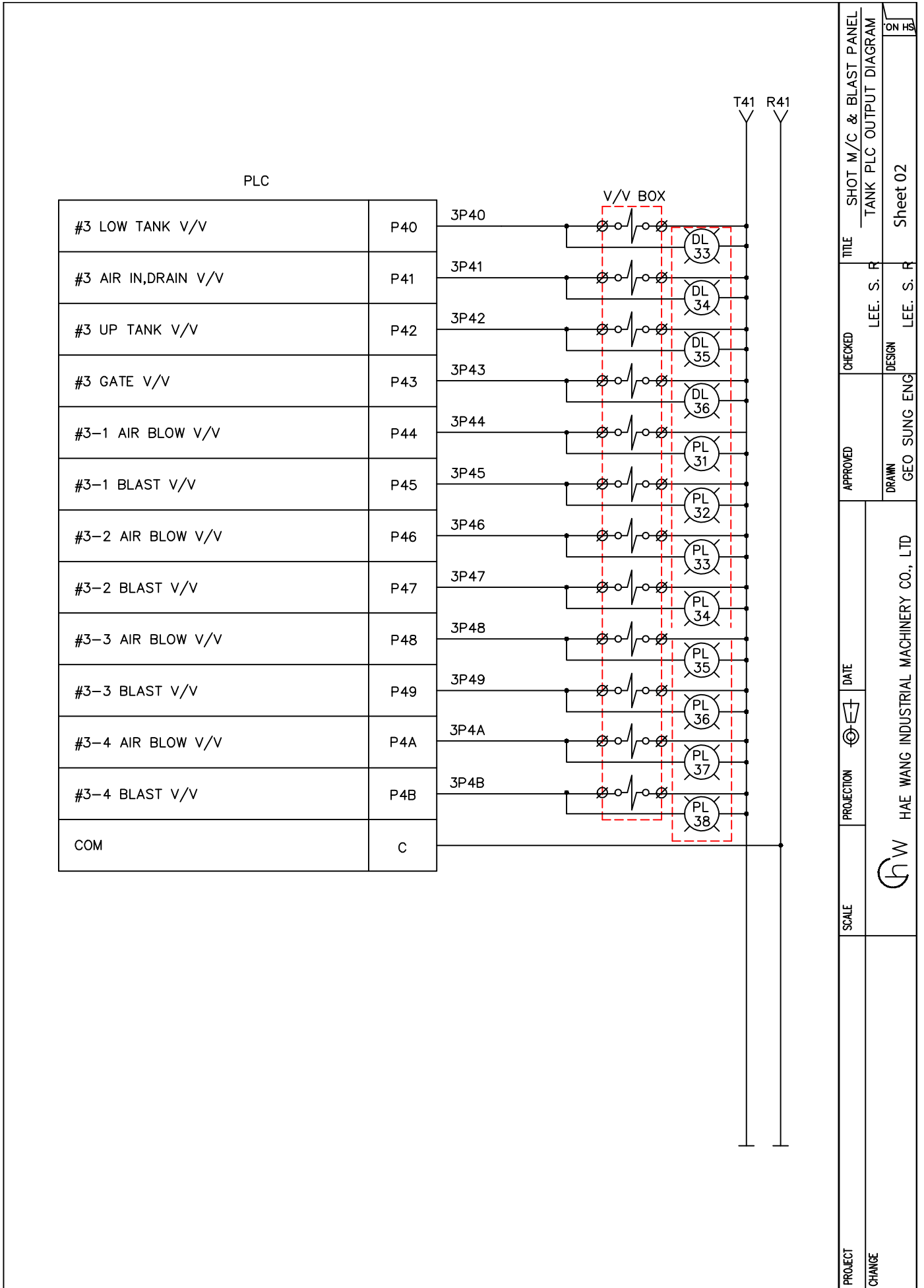


PLC

P00	#3 TANK FILL
P01	#3 TANK FULL
P02	#3-1 NOZZLE OFF?ON
P03	#3-1 BLAST
P04	#3-1 AIR BLOW
P05	#3-1 STOP
P06	#3-2 NOZZLE OFF?ON
P07	#3-2 BLAST
P08	#3-2 AIR BLOW
P09	#3-2 STOP
P0A	#3-3 NOZZLE OFF?ON
P0B	#3-3 BLAST
P0C	#3-3 AIR BLOW
P0D	#3-3 STOP
P0E	#3-4 NOZZLE OFF?ON
P0F	#3-4 BLAST
P10	#3-4 AIR BLOW
P11	#3-4 STOP
C	COM

PROJECT CHANGE	SCALE	PROJECTION ①	DATE	APPROVED	CHECKED	TITLE	ON HS
				LEE. S. R	LEE. S. R	SHOT M/C & BLAST PANEL TANK PLC INPUT DIAGRAM	Sheet 01
HAE WANG INDUSTRIAL MACHINERY CO., LTD				DESIGN	DRAWN	ON HS	
				LEE. S. R	GEO SUNG ENG	Sheet 01	

Electric Drawing



PROJECT CHANGE	SCALE	PROJECTION	DATE	APPROVED	CHECKED	TITLE	ON HS
			HAE WANG INDUSTRIAL MACHINERY CO., LTD	DRAWN GEO SUNG ENG	DESIGN LEE. S. R	TANK PLC OUTPUT DIAGRAM	SHOT M/C & BLAST PANEL