

KOYO

KOYO DirectLogic series PLC DL05, DL06 , DL105, DL205, DL305 and DL405 series

<http://www.automationdirect.com>

HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	KOYO DIRECT		
Com port	RS232	RS232, RS485	
Baud rate	9600	9600, 19200, 38400	
Parity bit	Odd	Even, Odd, None	
Data Bits	8	7, 8	
Stop Bits	1	1	
HMI Station No.	0		Does not apply to this protocol.
PLC Station No.	1	1-90	

PLC Setting:

	<ol style="list-style-type: none">1. The PLC must not have a password.2. PLC must be set for Full Duplex operation.3. PLC must be set for No Hardware Handshaking.4. The PLC must be set to use the 'K' Sequence Protocol.5. Set the mode switch to the TERM mode6. When using the D4-440 CPU, you must set the station number to 1.
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Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0 ~ 77777	Input Bits
B	Y	ooo	0 ~ 77777	Output Bits
B	C	ooo	0 ~ 77777	Control Relays
B	T	ooo	0 ~ 77777	Timer Status Bits
B	CT	ooo	0 ~ 77777	Counter Status Bits
W	V	ooo	0 ~ 77777	V Memory

Wiring diagram:

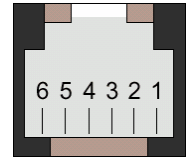
1. CPU unit: DL05/DL06/DL105/DL230/DL240/DL250/DL350/DL450 RS232 port

MT8000 RS232
9P D-SUB Female

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

KOYO DirectLogic PLC
RS232 port
6P RJ12 phone jack

3 RX
4 TX
1 GND



RJ12 6Pin Female

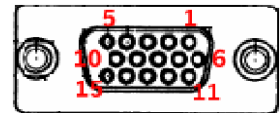
2. CPU unit: DL06/DL250 CPU Port2 RS232

MT8000 RS232
9P D-SUB Female

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

KOYO DirectLogic PLC
CPU RS232 Port2
15P D-SUB Female

3 RX
2 TX
7 GND
4 RTC
5 CTS



15P D-SUB Female

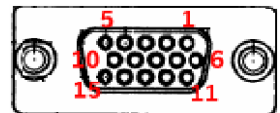
3. CPU unit: DL06/DL250 CPU Port2 RS422

MT8000
COM1 [RS-485] 4w
9P D-SUB Male

1 RX-
2 RX+
5 GND
3 TX-
4 TX+

KOYO DirectLogic PLC
CPU RS422 Port2
15P D-SUB Female

10 TX-
9 TX+
7 GND
6 RX-
13 RX+
11 RTS+
14 CTS+
12 RTS-
15 CTS-



Note: DL06/DL250 CPU Port2 include RS232 and RS422

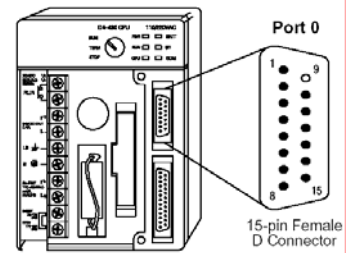
4. CPU unit: DL430/DL440/DL450 CPU unit Port0 RS232

MT8000 RS232
9P D-SUB Female

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

KOYO DirectLogic PLC
DL405 CPU RS232 Port0
15P D-SUB Female

3 RX
2 TX
13 GND
1 YOP
7 CTS
2 YOM
4 ONLINE
14 GND



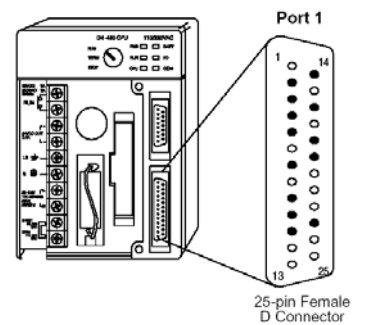
5. CPU unit: DL430/DL440/DL450 CPU unit Port1 & DL350 CPU unit Port2 RS232

MT8000 RS232
9P D-SUB Female

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

KOYO DirectLogic PLC
DL305/405 CPU RS232 Port
25P D-SUB Female

3 RX
2 TX
7 GND
4 RTC
5 CTS



6. CPU unit: DL430/DL440/DL450 CPU unit Port1 & DL350 CPU unit Port2 RS422

MT8000
COM1[RS-485]4w
9P D-SUB Male

1 RX-
2 RX+
5 GND
3 TX-
4 TX+

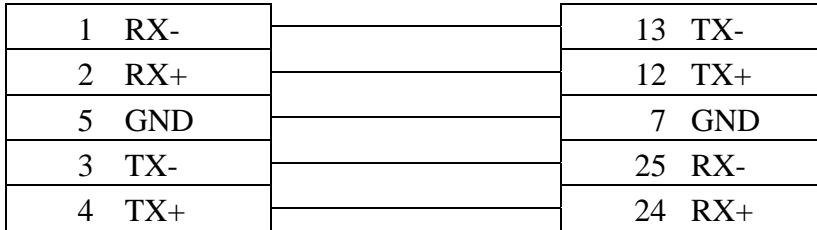
KOYO DirectLogic PLC
DL305/405 CPU RS422 Port
25P D-SUB Female

16 TX-
14 TX+
7 GND
10 RX-
9 RX+
19 RTS+
11 CTS+
18 RTS-
23 CTS-

7. CPU unit: DL450 CPU unit Port3 RS422

MT8000
COM1[RS-485]4w
9P D-SUB Male

KOYO DirectLogic PLC
DL405 CPU RS422 Port3
25P D-SUB Female



8. Communication unit: DL205 series D2-DCM and DL405 series D4-DCM RS232

MT8000 RS232
9P D-SUB Female

KOYO DirectLogic PLC
DL205/405 DCM RS232 Port
25P D-SUB Female

