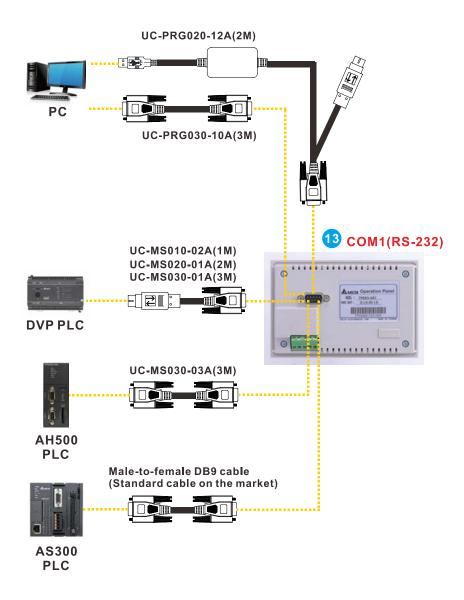
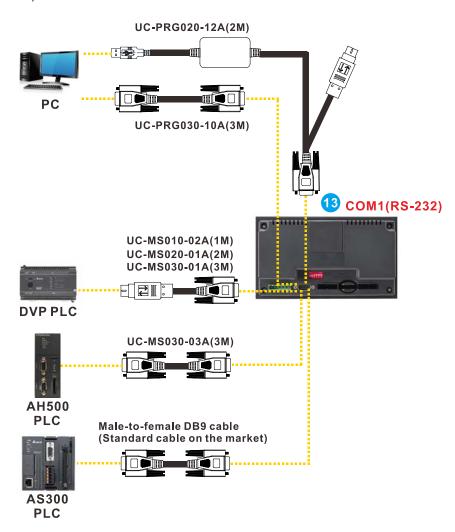
#### П

#### 1.16 TP Series

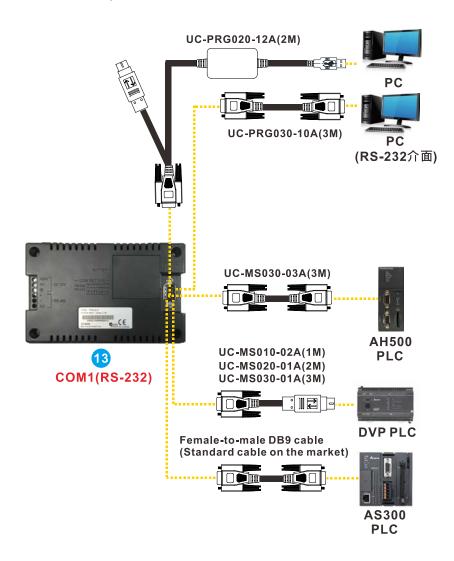
TP series (TP02G-AS1, TP04G-AS2)



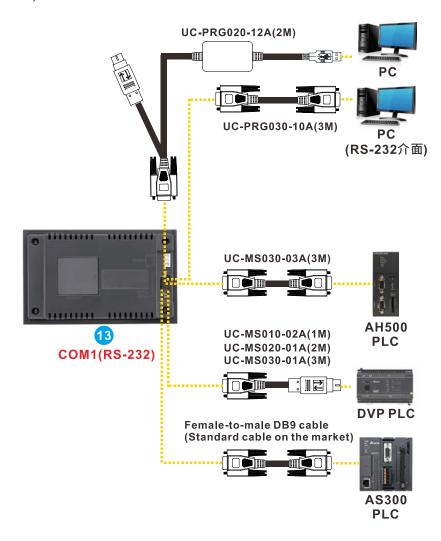
#### TP series (TP08G-BT2)



#### TP series (TP04G-AL-C, TP04G-AL2)



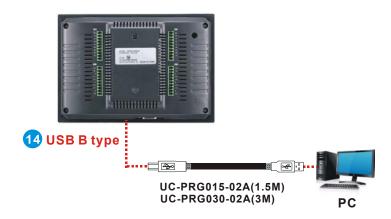
#### TP series (TP04G-BL-C)



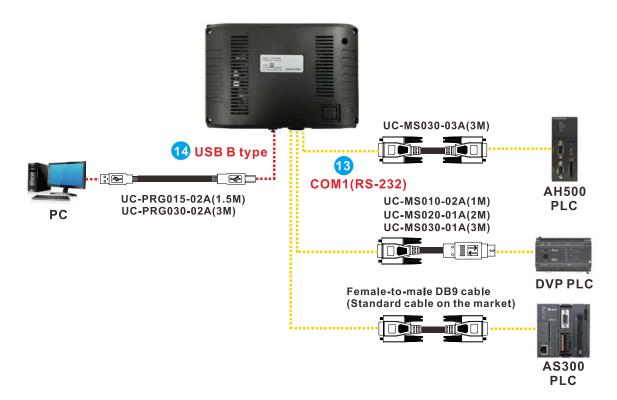
**TP04P series** (TP04P-16TP1R, TP04P-21EX1R, TP04P-32TP1R, TP04P-22XA1R)



#### **TP70P series** (TP70P-16TP1R, TP70P-21EX1R, TP70P-22XA1R, TP70P-32TP1R)

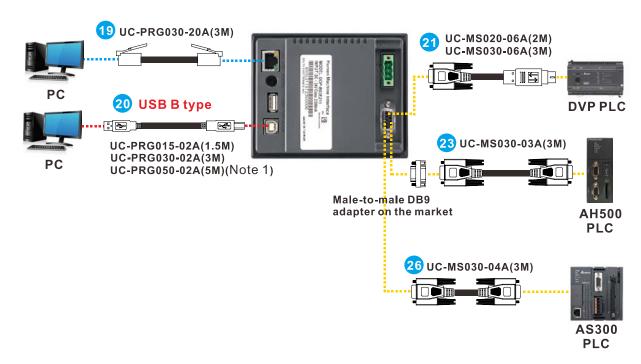


#### TP70P series (TP70P-RM0, TP70P-RM1, TP70P-RM2)



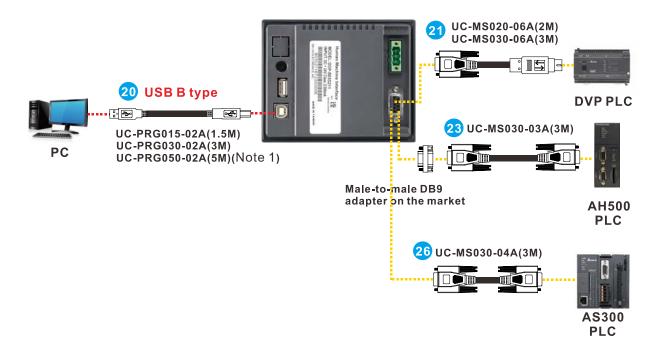
#### 1.17 DOP-B Series

DOP-B series (DOP-B03E211)



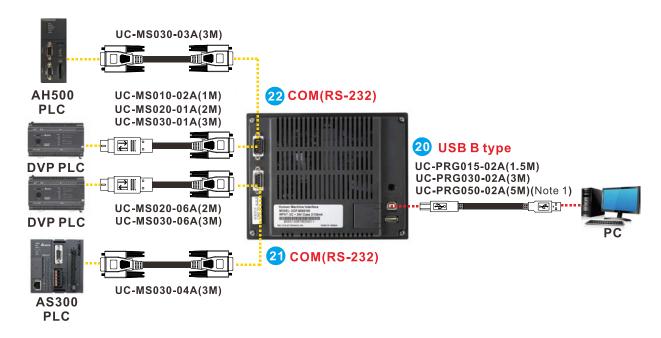
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### **DOP-B series** (DOP-B03S210, DOP-B03S211)



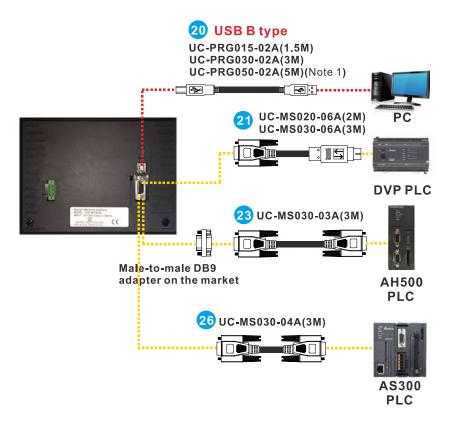
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### DOP-B series (DOP-B05S111)



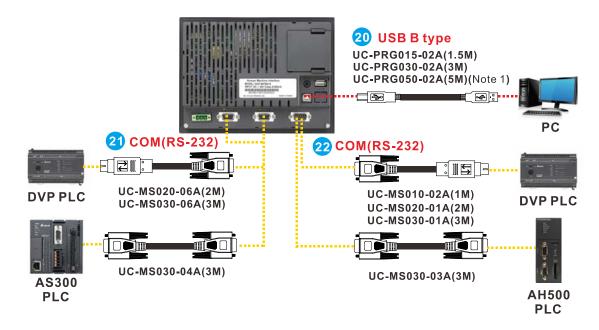
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### DOP-B series (DOP-B07S410)



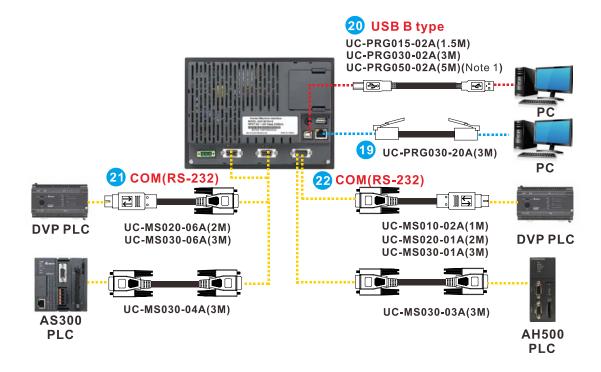
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### **DOP-B series** (DOP-B07S411, DOP-B07S401K, DOP-B07S411K, DOP-B07S415, DOP-B07PS415)



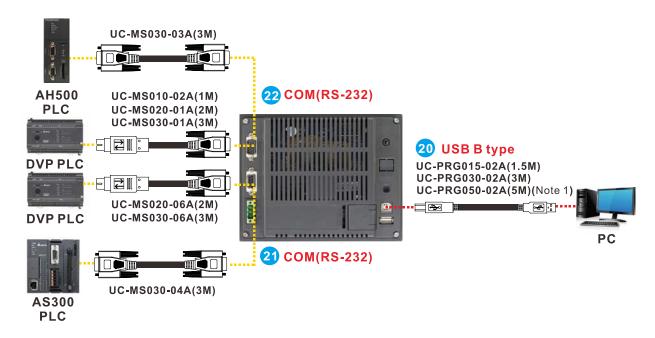
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### DOP-B series (DOP-B07E415)

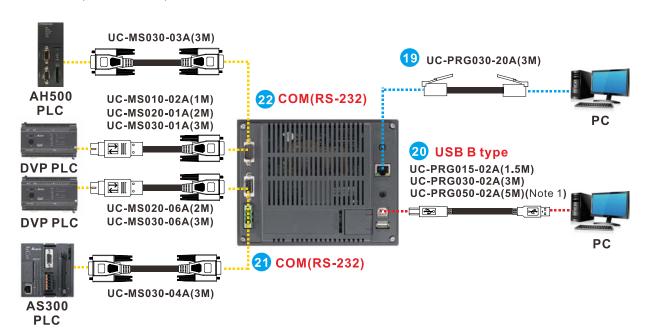


Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### **DOP-B series** (DOP-B07S515, DOP-B07PS515)

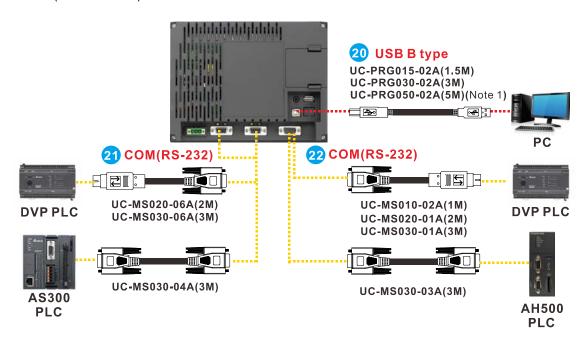


Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.



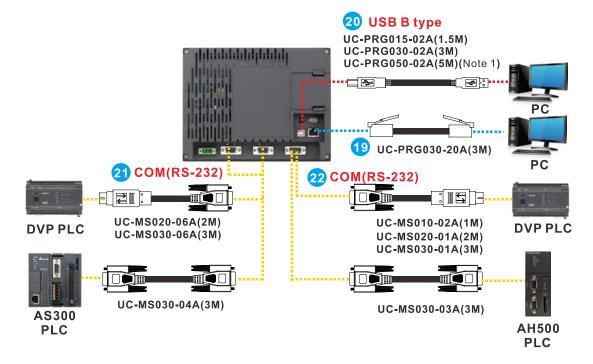
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### DOP-B series (DOP-B08S515)



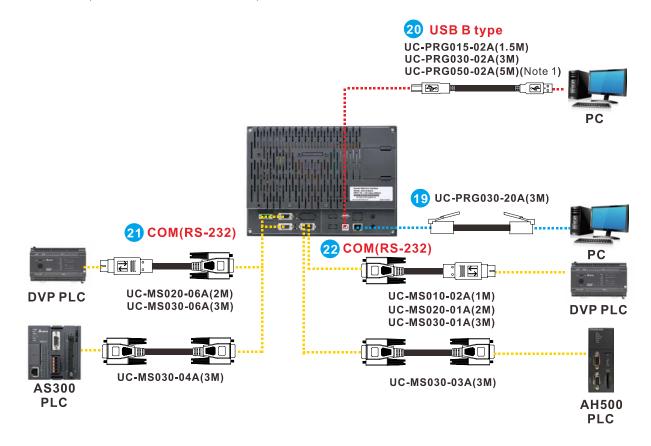
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### DOP-B series (DOP-B08E515)



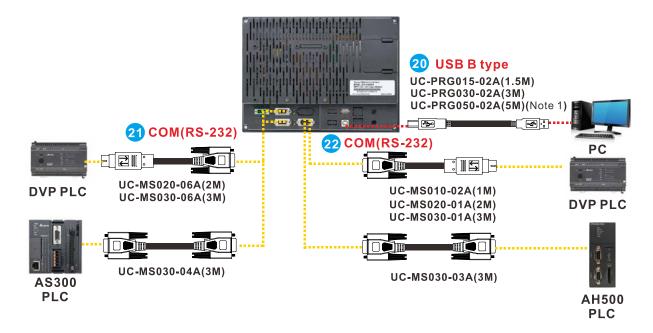
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### **DOP-B series** (DOP-B10S411, DOP-B10S615)



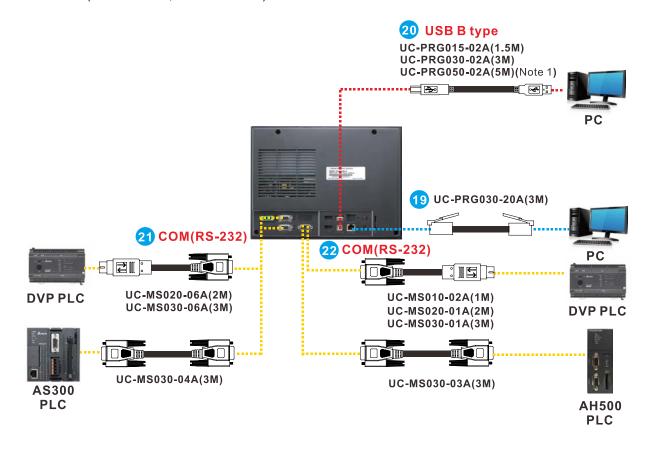
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### DOP-B series (DOP-B10E615)



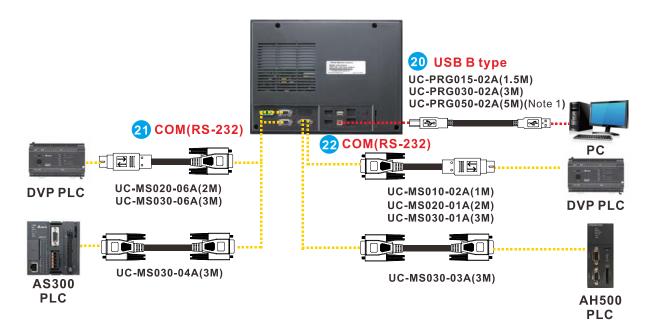
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### **DOP-B series** (DOP-B10S511, DOP-B10VS511)



Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

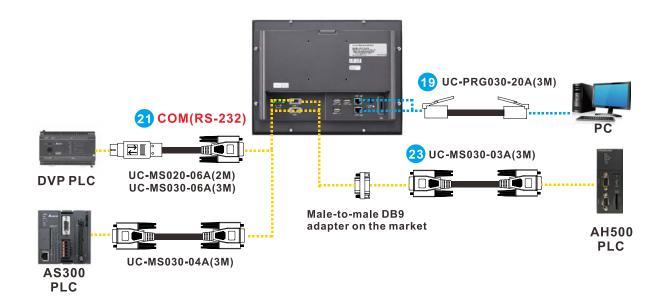
#### DOP-B series (DOP-B10E515)



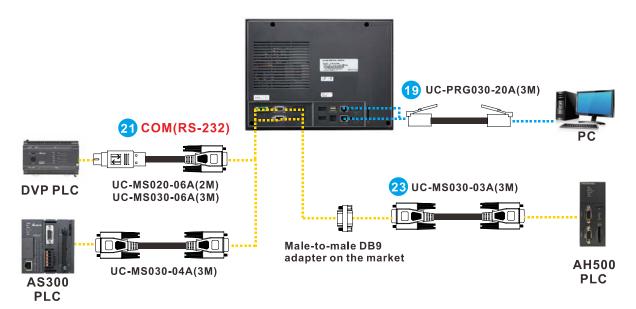
Note1: UC-PRG050-02A is used for transferring input signals between the interface panel and the controller. The cable is used exclusively for all-electric injection molding machines.

#### 1.18 DOP-W Series

DOP-W series (DOP-W105B, DOP-W127B)







# 1.19 DOP Series HMIs and the Delta Machine Vision System (RS-232)

Applicable DOP series:

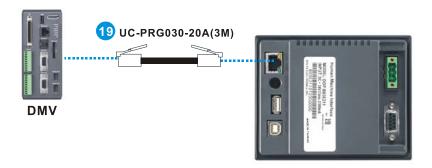
- DOP-B series (DOP-B03E211, DOP-B03S210, DOP-B03S211, DOP-B05S111, DOP-B07E415, DOP-B07E515, DOP-B07PS415, DOP-B07PS515, DOP-B07S401K, DOP-B07S410, DOP-B07S411, DOP-B07S411K, DOP-B07S415, DOP-B07S515, DOP-B08E515, DOP-B08S515, DOP-B10E515, DOP-B10E615, DOP-B10S411, DOP-B10S511, DOP-B10S615, DOP-B10VS511)
- **DOP-W series** (DOP-W105B, DOP-W127B, DOP-W157B)



# 1.20 DOP Series HMIs and the Delta Machine Vision System (Ethernet)

Applicable DOP series:

- **DOP-B series** (DOP-B03E211, DOP-B07E415, DOP-B07E515, DOP-B08E515, DOP-B10E515, DOP-B10E615)
- **DOP-W series**(DOP-W105B, DOP-W127B, DOP-W157B)



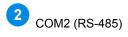
#### 1.21 Cable Models



СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC			8-pin male min-DIN connector ↔ Female DB9 connector	PC/HMI/TP
			UC-MS010-02A (1 m) (Figure 1)	
			UC-MS020-01A (2 m) (Figure 2)	
			UC-MS030-01A (3 m) (Figure 2)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC			8-pin male mini-DIN connector ↔ USB connector	PC
			UC-PRG020-12A (2M) (Figure 3A)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC			8-pin male mini-DIN connector ↔ Male DB9 connector	НМІ
			UC-MS020-06A (2 m) (Figure 4)	
			UC-MS030-06A (3 m) (Figure 4)	



СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC			RS-485 ↔ USB	PC
D+ D- SG RS-486			IFD6500 (Figure 5)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC			RS-485 ↔ RS-232	PC
D+ D- SG R8-486			IFD8500 (Figure 6)	

# 3 COM3 (RS-485)

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC			RS-485 ↔ USB	PC
SG D + D -			IFD6500 (Figure 5)	



CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC			RS-485 ↔ RS-232	PC
SG D + D - SG COM3+ 1 COM3- 1			IFD8500 (Figure 6)	



СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC			Mini USB ↔ USB	PC
(a)			UC-PRG015-01A (1.5 m) (Figure 10)	
(mm)			UC-PRG030-01A (3 m) (Figure 10)	

# 5 COM1/COM2 (RS-485)

CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVPSCM12-SL (Figure 9) DVPSCM52-SL (Figure 9)	RS-485 ↔ USB	PC
		D- D- SG	IFD6500 (Figure 5)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC			RS-485 ↔ RS-232	PC
D- D- SG			IFD8500 (Figure 6)	



CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVPEN01-SL (Figure 8)	8-pin male mini-DIN connector ↔ Female DB9 connector	PC/HMI/TP
			UC-MS010-02A (1 m) (Figure 1)	
			UC-MS020-01A (2 m) (Figure 2)	
			UC-MS030-01A (3 m) (Figure 2)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVPEN01-SL (Figure 8)	8-pin male mini-DIN connector ↔ Male DB9 connector	НМІ
			UC-MS020-06A (2 m) (Figure 4)	
			UC-MS030-06A (3 m) (Figure 4)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVPEN01-SL (Figure 8)	8-pin male mini-DIN connector ↔ USB connector	PC
			UC-PRG020-12A (2M) (Figure 3A)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVPEN01-SL (Figure 8)	RJ45 ↔ RJ45	PC/HMI
			UC-PRG030-20A (3M) (Figure 7)	



СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC			RJ45 ↔ RJ45	PC/HMI
			UC-PRG030-20A (3M) (Figure 7)	

# 8 COM3 (RS-232)

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-FEN01 (Figure 14)	8-pin male mini-DIN connector ↔ Female DB9 connector	PC/HMI/TP
			UC-MS010-02A (1 m) (Figure 1)	
			UC-MS020-01A (2 m) (Figure 2)	
			UC-MS030-01A (3 m) (Figure 2)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-FEN01 (Figure 14)	8-pin male mini-DIN connector ↔ Male DB9 connector	НМІ
			UC-MS020-06A (2 m) (Figure 4)	
			UC-MS030-06A (3 m) (Figure 4)	

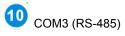
СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-FEN01 (Figure 14)	8-pin male mini-DIN connector ↔  USB connector	PC
			UC-PRG020-12A (2M) (Figure 3A)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-FEN01 (Figure 14)	RJ45 ↔ RJ45	PC/HMI
			UC-PRG030-20A (3M) (Figure 7)	

## 9 COM3 (RS-232)

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-F232 (Figure 15)	Female DB9 connector ↔ USB connector	PC
			UC-PRG020-12A (2M) (Figure 3B)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-F232 (Figure 15)	Female DB9 connector ↔ Female DB9 connector	PC
			UC-PRG030-10A (3M) (Figure 12)	



СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-F485 (Figure 16)	RS-485 ↔ USB	PC
		<u> </u>	IFD6500 (Figure 5)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC		DVP-F485 (Figure 16)	RS-485 ↔ RS-232	PC
		<b>P P</b>	IFD8500 (Figure 6)	

# 11 COM3 (RS-232)

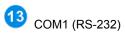
СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC	Male-to-male null modem adapter	F232S (Figure 11)	Female DB9 connector ↔ USB connector	PC
			UC-PRG020-12A (2M) (Figure 3B)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC	Male-to-male null modem adapter	F232S (Figure 11)	Female DB9 connector ↔ Female DB9 connector	PC
			UC-PRG030-10A (3M) (Figure 12)	

# 12 COM3 (RS-485)

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		F485S (Figure 13)	RS-485 ↔ USB	PC
		ф .	IFD6500 (Figure 5)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
PLC		F485S (Figure 13)	RS-485 ↔ RS-232	PC
		<u> </u>	IFD8500 (Figure 6)	



СРИ	Adapter	Module/Interface card	Cable	Machine connected
TP			Female DB9 connector ↔ USB connector	PC
<b>O</b>			UC-PRG020-12A (2M) (Figure 3B)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
TP			Female DB9 connector ↔ Female DB9 connector	PC
			UC-PRG030-10A (3M) (Figure 12)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
TP			Female DB9 connector ↔ 8-pin male mini-DIN connector	DVP PLC
			UC-MS010-02A (1 m) (Figure 1)	
			UC-MS020-01A (2 m) (Figure 2)	
			UC-MS030-01A (3 m) (Figure 2)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
TP			Female DB9 connector ↔ Male DB9 connector	AH500
			UC-MS030-03A (3M) (Figure 18)	

## USB Type-B

CPU	Adapter	Module/Interface card	Cable	Machine connected
TP			USB Type-B ↔ USB Type-A	PC
			UC-PRG015-02A (1.5 m) (Figure 19)	
			UC-PRG030-02A (3 m) (Figure 19)	

## 15 COM (RS-485)

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500		AH10SCM-5A (Figure 21)	RS-485 ↔ USB	PC
		D+ D- so	IFD6500 (Figure 5)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500		AH10SCM-5A (Figure 21)	RS-485 ↔ RS-232	PC
		å å å å å å å å å å å å å å å å å å å	IFD8500 (Figure 6)	

# 16 COM (RS-485)

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500		AH10EN-5A (Figure 20)	RJ45 ↔ RJ45	PC/HMI
			UC-PRG030-20A (3M) (Figure 7)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500	Male-to-male DB9 adapter (cable accessory)		Female DB9 connector ↔ USB connector	PC
			UC-PRG020-12A (2M) (Figure 3B)	

CPU	Adapter	Module/Interface card	Cable	Machine connected
AH500	Male-to-male DB9 adapter		Female DB9 connector ↔ Female DB9 connector	PC
			UC-PRG030-10A (3M) (Figure 12)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500	Male-to-male DB9 adapter		Female DB9 connector ↔ Male DB9 connector	PC/TP/HMI
			UC-MS030-03A (3M) (Figure 18)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500			Male DB9 connector ↔ Male DB9 connector	DMV
			UC-MS030-04A (3M) (Figure 17)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AS300		AS-F232 (Figure 22)	Male DB9 connector ↔ Female DB9 connector	PC/TP/HMI
			Standard cable on the marker	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AS300	Male-to-male DB9 adapter		Female DB9 connector ↔ Male DB9 connector	DMV
			UC-MS030-03A (3M) (Figure 18)	

## 18 COM (RS-485)

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500			RS-485 ↔ USB	PC
			IFD6500 (Figure 5)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AH500			RS-485 ↔ RS-232	PC
			IFD8500 (Figure 6)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AS300		AS-F485 (Figure 22)	RS-485 ↔ USB	PC
			IFD6500 (Figure 5)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
AS300		AS-F485 (Figure 23)	RS-485 ↔ RS-232	PC
			IFD8500 (Figure 6)	



СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			RJ45 ↔ RJ45	PC
			UC-PRG030-20A (3M) (Figure 7)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			RJ45 ↔ RJ45	DMV
			UC-PRG030-20A (3M) (Figure 7)	

# USB Type-B

СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			USB Type-B ↔ USB Type-A	PC
			UC-PRG015-02A (1.5 m) (Figure 19)	F TYTE
			UC-PRG030-02A (3 m) (Figure 19)	
			UC-PRG050-02A (5M) (Figure 19)	



СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			Male DB9 connector ↔ 8-pin male mini-DIN connector	PLC
		UC-MS020-06A (2 m) (Figure 4)		
			UC-MS030-06A (3 m) (Figure 4)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			Male DB9 connector ↔ Male DB9 connector	AS300
			UC-MS030-04A (3M) (Figure 17)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			Female DB9 connector ↔ 8-pin male mini-DIN connector	PLC
			UC-MS010-02A (1 m) (Figure 1)	
		UC-MS020-01A (2 m) (Figure 2)		
			UC-MS030-01A (3 m) (Figure 2)	

СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			Female DB9 connector ↔ Male DB9 connector	AH500
			UC-MS030-03A (3 m) (Figure 18)	

### 23 COM (RS-232)

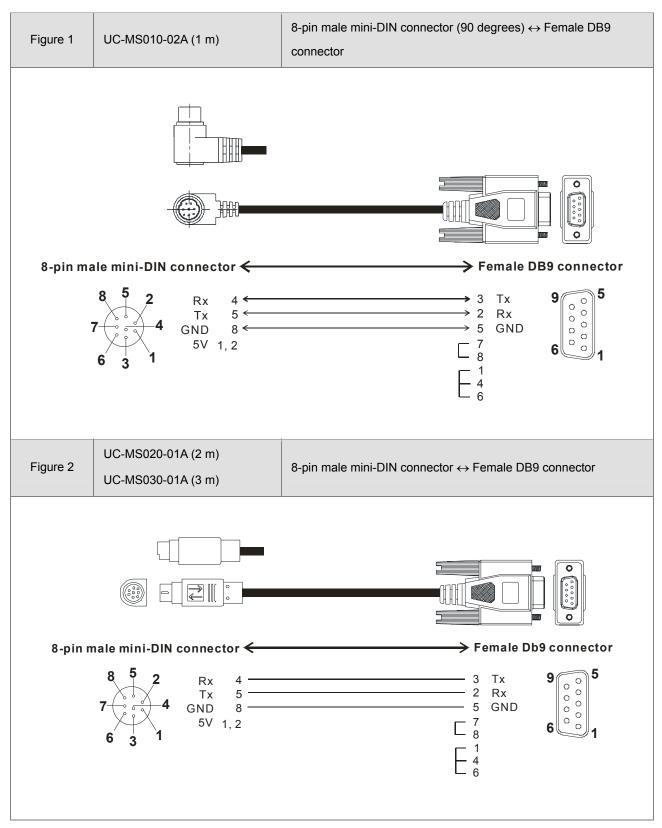
CPU	Adapter	Module/Interface card	Cable	Machine connected
DOP	Male-to-male DB9 adapter		Female DB9 connector ↔ Male DB9 connector	AH500
			UC-MS030-03A (3 m) (Figure 18)	

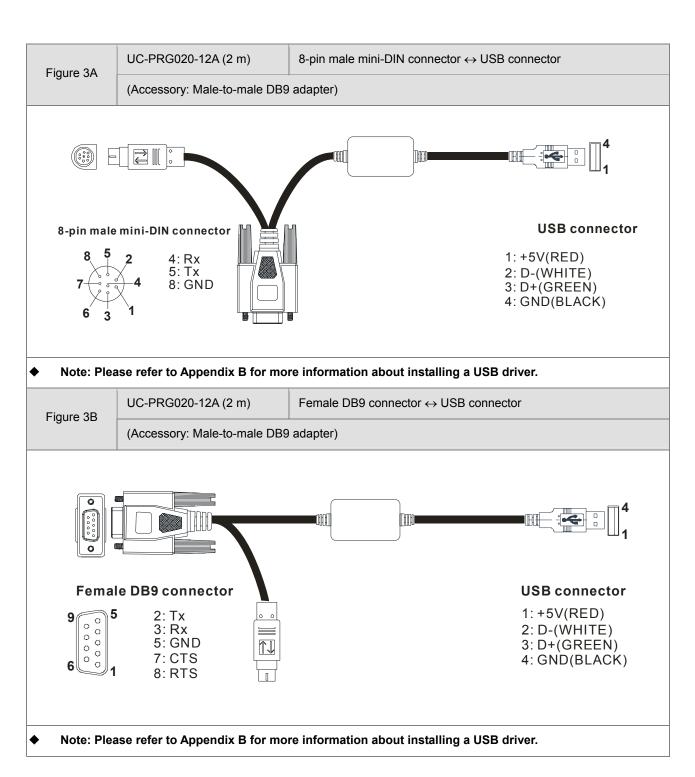
CPU	Adapter	Module/Interface card	Cable	Machine connected
PLC			8-pin male mini-DIN connector ↔ Male DB9 connector	DMV
			UC-MS020-06A (2 m) (Figure 4)	
			UC-MS030-06A (3 m) (Figure 4)	

#### 25 COM (RS-232)

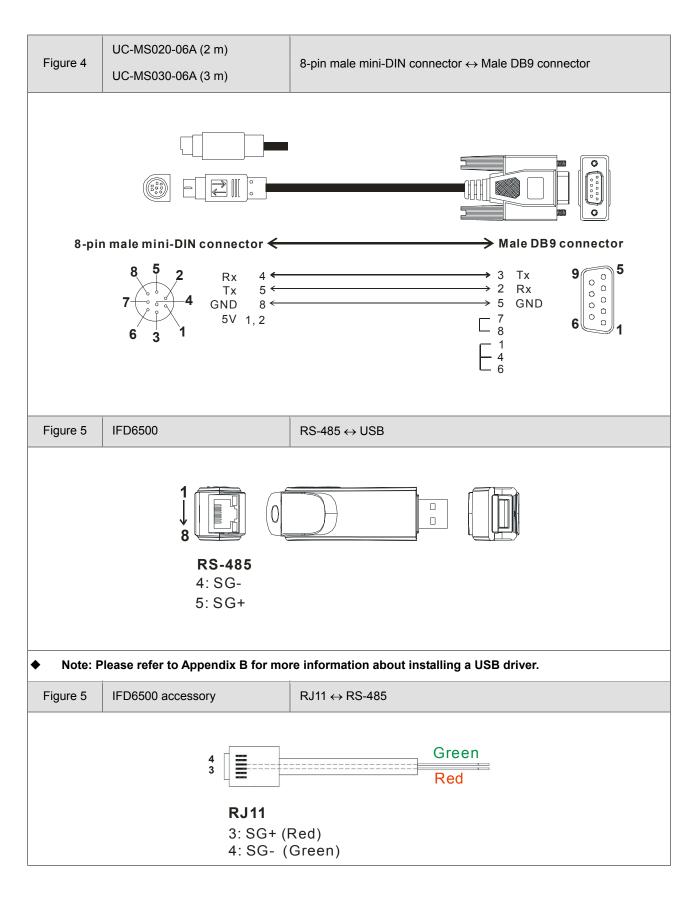
СРИ	Adapter	Module/Interface card	Cable	Machine connected
DOP			Male DB9 connector ↔ Male DB9 connector	DMV
			UC-MS030-04A (3 m) (Figure 17)	

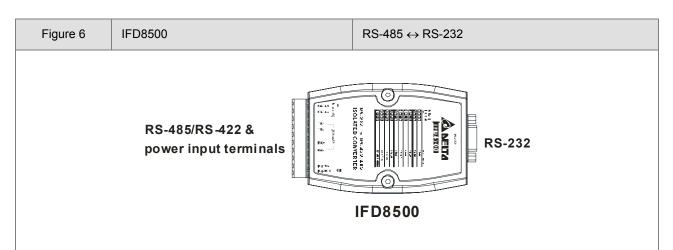
CPU	Adapter	Module/Interface card	Cable	Machine connected
DOP			Male DB9 connector ↔ Male DB9 connector	AS300
			UC-MS030-04A (3 m) (Figure 17)	





П





RS-485/RS-422	2 & power input terminals	RS-232
1: RS-485 DATA+	6: RS-422 RX+	
2: RS-485 DATA- 3: 4: RS-422 TX+	7: RS-422 RX- 8: 9: +Vs (positive power input)	2: Rx 3: Tx 5: GND
5: RS-422 TX-	10: GND (Negative power input)	

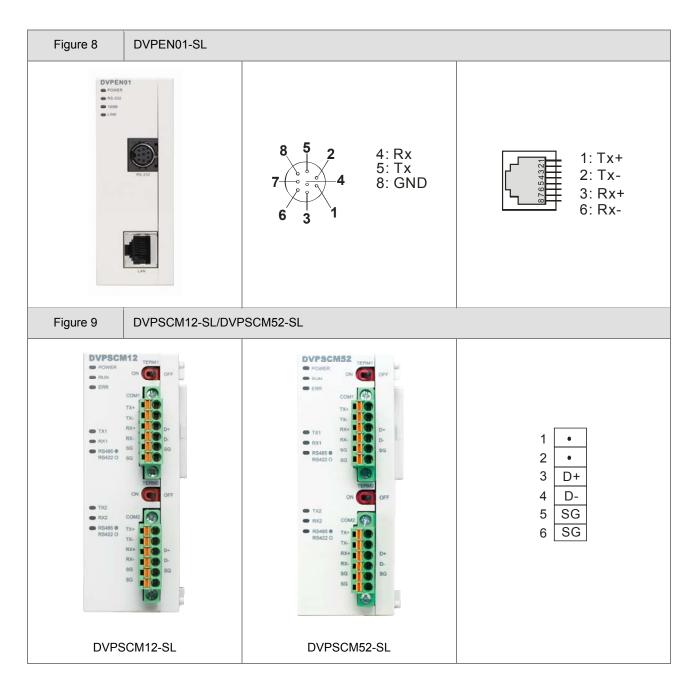
♦ Note: If the RS-485 interface is connected to a PLC, the station address set in software needs to be the same as the station address of the PLC.

Figure 7 UC-PRG030-20A (3 m)

RJ45 ↔ RJ45

RJ45

1: Tx+
2: Tx3: Rx+
6: Rx
RJ45



П

