

UC-PRG020-12A

Instruction Sheet Bilgi Dökümanı 安裝說明 安裝說明

Programming cable (RS-232 to USB)
Programlama kablosu (RS-232 to USB)
程式規劃電纜 (RS-232 to USB)
编程电缆 (RS-232 to USB)



⚠ WarningENGLISH

EN ✂ UC-PRG020-12A is an OPEN-TYPE device. It should be installed in a control cabinet free of airborne dust, humidity, electric shock and vibration. To prevent non-maintenance staff from operating UC-PRG020-12A, or to prevent an accident from damaging UC-PRG020-12A, the control cabinet in which UC-PRG020-12A is installed should be equipped with a safeguard. For example, the control cabinet in which UC-PRG020-12A is installed can be unlocked with a special tool or key.

EN ✂ DO NOT connect AC power to any of I/O terminals, otherwise serious damage may occur. Please check all wiring again before UC-PRG020-12A is powered up. After UC-PRG020-12A is disconnected, Do NOT touch any terminals in a minute. Make sure that the ground terminal ④ on UC-PRG020-12A is correctly grounded in order to prevent electromagnetic interference.

FR ✂ UC-PRG020-12A est un module OUVERT. Il doit être installé que dans une enceinte protectrice (boîtier, armoire, etc.) saine, dépourvue de poussière, d'humidité, de vibrations et hors d'atteinte des chocs électriques. La protection doit éviter que les personnes non habilitées à la maintenance puissent accéder à l'appareil (par exemple, une clé ou un outil doivent être nécessaire pour ouvrir a protection).

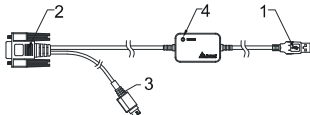
FR ✂ Ne pas appliquer la tension secteur sur les bornes d'entrées/Sorties, ou l'appareil UC-PRG020-12A pourra être endommagé. Merci de vérifier encore une fois le câblage avant la mise sous tension du UC-PRG020-12A. Lors de la déconnexion de l'appareil, ne pas toucher les connecteurs dans la minute suivante. Vérifier que la terre est bien reliée au connecteur de terre ④ afin d'éviter toute interférence électromagnétique.

● Introduction

■ Features

UC-PRG020-12A is a USB-to-RS-232 programming cable. The RS-232 end provides a mini-DIN interface and a DB9 interface, and can be conveniently connected to an RS-232 device through a computer. The USB end is a type-A interface. It features plug and play, and hot swapping. Besides, it does not need to be connected to any external power supply.

■ Product Profile & Outline



①	USB type-A connector
②	RS-232 DB9 connector
③	RS-232 mini-DIN connector
④	RS-232 communication indicator (Note)

Note: The RS-232 communication indicator on UC-PRG020-12A is described below.

State	Description
Continuously On	Power is normal.
Blinking	RS-232 communication is being executed.

● Specifications

■ RS-232 Interface

Interface	DB9, Mini-DIN
Baud rate	75, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Communication format	Stop bit: 1, 2 / Parity bit: None, Odd, Even / Data bit: 7, 8 / ASCII/RTU

■ USB Interface

USB connector	A-type plug
Compatibility	USB V2.0
Operating system	32-bit/64-bit version of Windows XP/Windows 7/Windows 8

■ Electrical Specifications

Input voltage	4.4 V~5.25 V
Maximum input current	50 mA

■ Environmental Specification

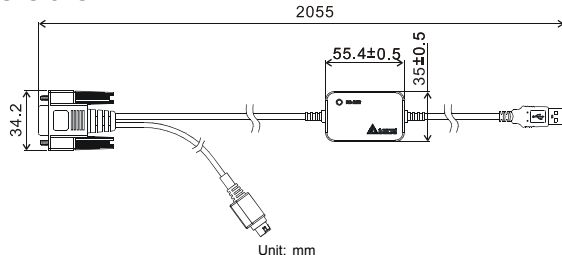
Operating temperature	0 °C~55 °C (32 °F~131 °F)
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Storage temperature	-25 °C~70 °C (-13 °F~158 °F)
Operating humidity	5%~95% (No condensation)
Electromagnetic Susceptibility (EMS)	ESD: ±10 kV Air Discharge (IEC 61000-4-2), 6 kV Contact Discharge EFT: ±2 kV, 5 kHz Repetition Frequency, Duration Time 15 ms (IEC 61000-4-4 level 3)
Shock	Acceleration 15 g, Period 11 ms (IEC 60068-2-27 (Tests Ea))
Vibration	Frequency 5~8.4 Hz, 8.4~150 Hz, Amplitude 3.5 mm, Acceleration 1 g (IEC 60068-2-6 (Test Fc))
Free fall	1 Corner, 3 Edges, 6 Faces, 1 m in Packaging (IEC 60068-2-32)
Certificate	CE

④ Installation

■ Dimensions

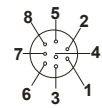


■ Mechanical Specification

Weight	118 g
Installation	Plug and Play

■ Pins in the RS-232 Mini-DIN Connector

Pin	Signal	Description	Pin	Signal	Description
1	--	NC	5	Rx	Receiving data
2	--	NC	6	--	NC
3	--	NC	7	--	NC
4	Tx	Transmitting data	8	GND	Ground



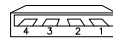
■ Pins in the RS-232 DB9 Connector

Pin	Signal	Description	Pin	Signal	Description
1	--	NC	5	GND	Ground
2	Tx	Transmitting data	6	--	NC
3	Rx	Receiving data	7	CTS	Clearing transmission
4	--	NC	8	RTS	Requesting transmission



■ Pins in the USB Connector

Pin	Signal	Description
1	V_BUS	+5 V power
2	D-	Data (Negative pole)
3	D+	Data (Positive pole)
4	GND	Ground



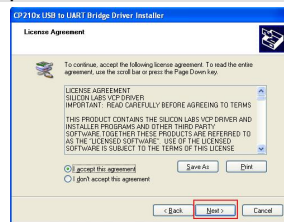
④ Driver

Double-click the executable file CP210xVCPInstaller_x86.exe or CP210xVCPInstaller_x64.exe, and then follow the steps below. (If a 32-bit Windows operating system is used, CP210xVCPInstaller_x86.exe should be double-clicked. If a 64-bit Windows operating system is used, CP210xVCPInstaller_x64.exe should be double-clicked.) Please download the driver from the official website of Delta (<http://www.deltaww.com/>).

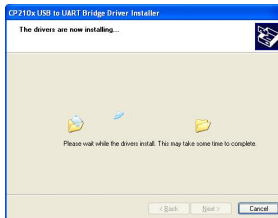
Step 1



Step 2



Step 3



Step 4



Step 5

After UC-PRG020-12A is connected to the computer, **Silicon Labs CP210x USB to UART Bridge (COMx)** will appear in the **Device Manager** window. **COMx** represents the communication port connected to UC-PRG020-12A.

⑥ Applicable Models

■ RS-232 Mini-DIN Connector

Product type	Series
PLC	DVP-SV series, DVP-SX series, DVP-SV2 series, DVP-SA2 series, DVP-SS2 series, DVP-SX2 series, DVP-ES2 series, DVP-EX2 series, DVP-EH3 series, DVP-EC3 series, DVP-ES series, DVP-EX series, DVP-MC series, DVP-PM series, DVP01LC-SL, DVP02LC-SL, DVPEN01-SL
Network product	RTU-EN01, IFD9506, IFD9507
AC servo motor and drive	ASDA-B series

■ RS-232 DB9 Connector

Product type	Series
PLC	AH5xx series (A male-to-male connector is needed.)
HMI	DOP-B series
Text panel	TP02G-AS1, TP04G-AS2, TP04G-AL2, TP04G-AL-C, TP04G-BL-C, TP08G-BT2

Accessory: Adapter→Male-to-male DB9 connector