XU Programming Kit Fundamentals and Demonstration





Content

- What is it & what's in the box?
- What products are programmed by it
- Connecting with correct software
- Connecting & Programming the XU2
- Connecting & Programming the IN-uP4
- Questions



What is it & Whats in the Box?



The XU Programming kit is an adapter cable set made to work with a "free to download" software to communicate with a number of Intech transmitters And a Microsoft PC.

In the box is the adaptor, 2 x leads, a USB extension lead & Instruction manual



What products are programmed by it?

uP4











XU4



XU2





Z-2400-A2IO



Connecting with the correct software

- 3 Software downloads Available:
- XU Works with XU2, XU4, XU2HN & XU2HI



• uP Configure – Works with uP4, uP4-Din & Z-2400-A2IO



rogramme

Intech Micro Station Programmer – Works with
 2400A16 Multiplexer



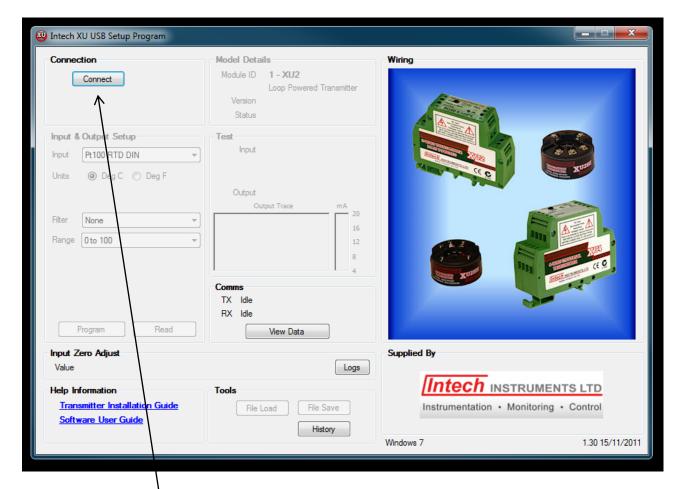
Connecting the XU2



Connect to PC and start up XU software



Programming the XU2



Press Connect



Programming the XU2

🥹 Intech XU USB Setup Program		
Connect Disconnect Connect on COM8	Model Details Module ID 1 - XU2 Loop Powered Transmitter Version 1.8 Status NO LOOP	Wiring
Input & Output Setup Input Pt100 RTD DIN Units Deg C Deg F Sensor Fail High (US) Filter None Range O to 100 Cal Output Program Read	Test Scaled Input 1802.6°C Output 21.00 mA Disconnected Output Trace mA 20 16 12 8 4 Comms TX OK, 717 Messages RX OK, 716 Messages	Image: Signature of the second sec
Input Zero Adjust Calibration Not Available in this transmitter ver Help Information <u>Transmitter Installation Guide</u> <u>Software User Guide</u>	View Data Insidn Logs Tools File Load File Save History	Supplied By Intech INSTRUMENTS LTD Instrumentation • Monitoring • Control Windows 7

Choose Input and Range



Programming the XU2

😳 Intech XU USB Setup Program		
Connect Disconnect Connect on COM8	Model Details Module ID 1 - XU2 Loop Powered Transmitter Version 1.8 Status NO LOOP	Wiring
Input & Output Setup Input Pt 100 RTD DIN ▼ Units Deg C Deg F Sensor Fail High (US) ▼ Filter None ▼ Range 0 to 100 ▼	Test Scaled Input 1802.6°C Output 21.00 mA Disconnected Output Trace mA 20 16 12 8 4	C LED C C RECT C C C RECT C C C C C C C C C C C C C C C C C C C
Cal Output Program Read Input Zero Adjust Calibration Not Available in this transmitter ve Help Information <u>Transmitter Installation Guide</u> <u>Software User Guide</u>	TX OK, 717 Messages RX OK, 716 Messages View Data rsion Logs Tools File Load File Save History	Supplied By Instrumentation • Monitoring • Control Windows 7 1.30 15/11/2011

Press Program



Disconnecting the XU2

🦥 Intech XU USB Setup Program		
Connection Connect Disconnect Connected on COM8	Model Details Module ID 1 - XU2 Loop Powered Transmitter Version 1.8 Status NO LOOP	Wiring
Input & Output Setup Input Pt 100 RTD DIN ▼ Units Deg C Deg F Sensor Fail High (US) ▼ Filter None ▼ Range 0 to 100 ▼	Test Scaled Input 1802.6°C Output 21.00 mA Disconnected Output Trace mA 20 16 12 8 4 Comms TX OK, 717 Messages RX OK, 716 Messages	5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
Program Read Input Zero Adjust Calibration Not Available in this transmitter ve Help Information Transmitter Installation Guide Software User Guide	View Data rsion Logs Tools File Load File Save History	Supplied By Intech INSTRUMENTS LTD Instrumentation • Monitoring • Control Windows 7 1.30 15/11/2011

Press Disconnect, then unplug XU2 and label it to your settings.



Connecting the IN-uP4





Programming the IN-uP4

	nfigure					
[[]]	Intech INSTRUMENTS LTD					
Plug		to your computer's USB port,	🕢 About	Intech uP Configure		
	and then click 'Connect'.			 Welcome to uP Configure! You are only seconds away from setting up your device Power up your device, if required O Connect a compatible device to your computer using the USB programming key and supplied cable(s). Device 		
Press Connect	IN-uP4	-Din Z-2400-A210 (3)	Power required 🚫	Click the green 'Connect' button. The software will automatically scan your computer for connected devices. Problems connecting? Start configuring!		



Programming the IN-uP4

	🙃 uP Configure	
		Disconnect
Choose your input settings	Input/Output Setpoints Advanced Input Output (Retransmission) Input Tupe RTD Output Value Input Tupe RTD Output Value Sepering Scale °C Output Value Offset Adjust 0.0 mA Output Display Display mA Output	Input Mode & Type/Range
	Live Trace 3,276.9 Input •• Output •• 3,276.8 3,276.7 3,276.6 3,276.5	Temperature (RTD) The RTD (standing for Resistance Temperature Device) is fast becoming the most popular temperature sensor in industry. It is highly stable and accurate. Often referred to as Pt100 and Pt1000: the Pt represents platinum (the dominant metal in its construction), and 100 or 1000 indicates the resistance in ohms at 0°C.



Intech

	😨 uP Configure				
	[Intech	INSTRUM	IENTS LTD	(Connected: COM8 © Disconnect
	Input/Output	Setpoints	Advanced	About	Input Mode & Type/Range
	Input			Output (Retransmission)	SETPOINTS USER INPUT
	Input Mode	Temperature RTD	•	Output Value 3.984 mA	4-20mA
	Sensor Type Temp Scale	Pt100 - 0.1 resolu		= 4.000 mA Output	
Choose	Offset-Adjust	0.0 0 seconds		= 20.000 mA Output	
Output	Display	u seconus			
scaling	Brightness	•			HV HV RTD 3 Wire 85-265V PT100/1000 20
(if Retrans	Live Trace	3,276.9			
is on the	Output I+	3,276.8			Temperature (RTD)
model)		3,276.7	· · · · · · · · · · ·		The RTD (standing for Resistance Temperature Device) is fast becoming the most popular temperature sensor in
		3,276.6	· · · · · · · · · · · ·		industry. It is highly stable and accurate. Often referred to as Pt100 and Pt1000:
		3,276.5	· · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	the Pt represents platinum (the dominant metal in its construction), and 100 or 1000 indicates the resistance in ohms at 0°C.



Programming the IN-uP4

	🐨 uP Configure		
	Intech INSTRUMENTS LTD	Connected: COM8 © Disconnect	
Choose Relay output settings (If Required)	Input/Output Setpoints Advanced @ About Setpoint 1 Mode Function Trip Value Hyderesis 10.9 Make Delay Deak Delay 0.0 Startup Inhibt Manual Relay Reset	Setpoints To begin configuring your setpoint, first select a Setpoint Mode. Alarm modes are ideal for tripping alarms or alerting an operator to key system conditions. Control modes are designed to control other equipment (such as turning pumps and heating units on and off). Image: Note that some Control modes require the use of both setpoints. Control Modes On/Off Energised Below In this mode the relay is energised Below the desired value.	
Apply the settings	Your configuration has unapplied changes	Off value On value	



Disconnecting the IN-uP4

	🕡 uP Configure	
	Intech INSTRUMENTS LTD	Connected: COM8
Press Disconnect & Unplug the UP4	Input/Output Setpoints Advanced Input Output (Betransmission) Input Mode Temperature Input Type RTD Sensor Type P100 • 0 • essolution • Temp Scale • Offset Adjust 0.0 Filter Time 0 seconds Display Bightness Live Trace 3,276.9	Input Mode & Type/Range
	Input 3,276.8 3,276.7 3,276.6 3,276.5 3,276.5	Temperature (RTD) The RTD (standing for Resistance Temperature Device) is fast becoming the most popular temperature sensor in industry. It is highly stable and accurate. Often referred to as Pt100 and Pt1000: the Pt represents platinum (the dominant metal in its construction), and 100 or 1000 indicates the resistance in ohms at 0°C.



THANK YOU!

Questions?

Contact us:

INTECH INSTRUMENTS LTD. Christchurch: 03 343 0646 Auckland: 09 827 1930 <u>sales@intech.co.nz</u> <u>www.intech.co.nz</u>