UNIVERSAL ROBOTS
A Teradyne Robotics Company

September 2026

g-Series







Robot Arm Specification

	UR10g-1750	UR17g-1300	UR18g-950
Maximum Payload	10 kg / 22 lbs	17.5 kg / 38.58 lbs	18 kg / 39.7 lbs
Reach	1750 mm / 68.9 in	1300 mm / 51.18 in	950 mm / 37.4 in
Degrees of freedom		6 rotating joints	
Maximum power consumption	615 W	550 W	570 W
Operating temperature range		0-50 °C / 32-122 °F Reduced performance from 35 °C and up.	
Safety functions		23 configurable safety functions	
In compliance with		**European requirements:** TÜV Rheinland EN ISO 13849-1 TÜV Rheinland EN ISO 10218-1 RoHS See Declaration of Incorporation **North American requirements:** TÜV Rheinland cTÜVus UL 1740 **Korean requirements:** KC Mark (EMC) KCs Mark (Safety)	

Performance

Force-torque sensing at tool flange	**Force, x-y-z**	**Torque, x-y-z**	**Force, x-y-z**	**Torque, x-y-z**	**Force, x-y-z**	**Torque, x-y-z**
Range	± 150.0 N	± 10.0 Nm	± 150.0 N	± 10.0 Nm	± 150.0 N	± 10.0 Nm
Precision	± 7.5 N	± 0.2 Nm	± 7.5 N	± 0.2 Nm	± 7.5 N	± 0.2 Nm
Accuracy	± 8.3 N	± 0.5 Nm	± 8.3 N	± 0.5 Nm	± 8.3 N	± 0.5 Nm

Movement

Maximum TCP speed	5 m/s		5 m/s		4 m/s	
Pose Repeatability per ISO 9283	± 0.08 mm		± 0.05 mm		± 0.05 mm	
Axis movement	**Working range**	**Maximum speed**	**Working range**	**Maximum speed**	**Working range**	**Maximum speed**
Base	± 360°	± 180°/s	± 360°	± 180°/s	± 360°	± 180°/s
Shoulder	± 360°	± 180°/s	± 360°	± 180°/s	± 360°	± 180°/s
Elbow	± 360°	± 240°/s	± 360°	± 240°/s	± 360°	± 240°/s
Wrist 1	± 360°	± 300°/s	± 360°	± 300°/s	± 360°	± 300°/s
Wrist 2	± 360°	± 300°/s	± 360°	± 300°/s	± 360°	± 300°/s
Wrist 3	± 360°	± 300°/s	± 360°	± 300°/s	± 360°	± 300°/s

Features

Noise level	< 55 dB(A)	< 55 dB(A)	< 55 dB(A)
Arm mounting		Any orientation	
Digital In	2 or 1 x safety input	2 or 1 x safety input	2 or 1 x safety input
Digital Out	2	2	2
Analog In	2 or 1 x RS-485	2 or 1 x RS-485	2 or 1 x RS-485
Tool I/O power supply voltage		12 or 24 Vdc	
Tool I/O power supply	2 A (dual pin) 1 A (single pin)	2 A (dual pin) 1 A (single pin)	2 A (dual pin) 1 A (single pin)

Physical

Footprint	Ø204 mm / Ø8.03 in	Ø204 mm / Ø8.03 in	Ø204 mm / Ø8.03 in
Robot materials		Aluminium, plastic, steel	
Tool flange		ISO 9409-1-50-4-M6	
Connector type		M8-8 A-coded 8 pin female (IEC 61076-2-104)	
Weight including cable	47.3 kg / 104.3 lbs	43.4 kg / 95.7 lbs	42 kg / 92.6 lbs
Humidity		≤ 90% RH (non-condensing)	

g-Series - Technical Specifications

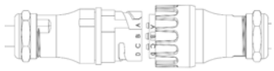
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g-Series







Control Box Specification

Features

	CB7 Core (PolyScope X)	CB7 Compact AC (PolyScope X)
Robot types	g-Series robot arms	g-Series robot arms
Software compatibility	PolyScope X	PolyScope X
IP Classification	IP54	N/A
Operating temperature range	0-50 °C / 32-122 °F	0-50 °C / 32-122 °F
I/O Ports		
Digital In	16	16
Digital Out	16	16
Analog In	2	2
Analog Out	2	2
Quadrature Digital inputs	4	4
I/O Power supply	24V, 4A	24V, 4A
Industrial protocols	Modbus TCP (Client/Server) Ethernet/IP Adapter PROFINET device/PROFIsafe	Modbus TCP (Client/Server) Ethernet/IP Adapter PROFINET device/PROFIsafe
Hardware interfaces	3x Ethernet RJ-45, 1000BASE-T USB 2.0, USB 3.0, USB Type C ethTP (Teach Pendant port)	3x Ethernet RJ-45, 1000BASE-T USB 2.0, USB 3.0, USB Type C ethTP (Teach Pendant port)

Physical

Control Box size (W x H x D)	393 x 284 x 201 mm / 15.5 x 11.2 x 7.9 in	387 x 158 x 201 mm / 15.2 x 6.2 x 7.9 in
Weight	12.4 kg / 27.3 lbs	8.5 kg / 18.7 lbs
Power supply output	C14, 100-240 VAC, 50-60 Hz	C14, 100-240 VAC, 50-60 Hz
Materials	Aluminium, plastic, steel	Aluminium, plastic, steel
Humidity	≤ 90% RH (non-condensing)	≤ 90% RH (non-condensing)

Teach Pendant Specification



Features

Robot types	g-Series (standard)
IP Classification	EN ISO 10218-1 EN ISO 13849-1
Humidity	≤ 90% RH (non-condensing)
Display resolution	1920 x 1080 pixels (11.6")
Freedrive	2x user-configurable buttons

Physical

Materials	Aluminium, PC/ASA plastic
Teach Pendant size (W x H x D)	302 mm x 241 mm x 25 mm
Weight (including 1 m Teach Pendant cable)	1.415 kg / 3.12 lbs
Cable length (Teach Pendant)	5 m / 12 m

Long and short cable options

Robot Cable g

Robot Cable g CHAIN

Power cable	Material	Color	Length	Diameter	Gross Weight	g-Series	g-Series robot arms
700-3xx-xx	PVC	Black	6 m / 236.22 in	Country specific	0.75 kg / 1.7 lbs	●	●

Robot Cable g

200145	PVC	Black	1 m / 39.37 in	12.1 mm / 0.48 in	0.4 kg / 1 lbs	○	○
200146	PVC	Black	2 m / 78.74 in	12.1 mm / 0.48 in	0.6 kg / 1.3 lbs	○	○
165100	PVC	Black	6 m / 236.22 in	12.1 mm / 0.48 in	2 kg / 4.4 lbs	●	-
165101	PVC	Black	12 m / 472.44 in	12.1 mm / 0.48 in	3.25 kg / 7.17 lbs	○	-

Robot Cable g CHAIN

166100	PVC	Blue	6 m / 236.22 in	13.4 mm / 0.53 in	2.3 kg / 5.07 lbs	○	-
166101	PVC	Blue	12 m / 472.44 in	13.4 mm / 0.53 in	4.5 kg / 9.92 lbs	○	-
200113	PVC	Blue	6 m / 236.22 in	14.6 mm / 0.57 in	2.3 kg / 5.07 lbs	-	●
200114	PVC	Blue	12 m / 472.44 in	14.6 mm / 0.57 in	4.5 kg / 9.92 lbs	-	○

○ Optional - Not applicable

What's in the box?

Select the setup that fits you

Robot	**g-Series** ☐ UR10g-1750 ☐ UR17g-1300 ☐ UR18g-950	**Teach Pendant**	☐ 5 m ☐ 12 m
Software	PolyScope X	**Cable**	☐ 6 m ☐ 12 m
Control Box	☐ CB7 Core ☐ CB7 Compact ☐ CB7 Compact 0.55m	**UR Care Service Plan**	☐ UR Care Plus ☐ UR Care Premium ☐ UR Care Customized

Contact

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g-Series - Technical Specifications