# UR10e technical details

#### **Performance**

Power consu	mption	Approx. 350 W	using a typical program
Collaboration operation		incl. elbow mo	adjustable safety functions onitoring. ol according to ISO 10218
Certifications		EN ISO 13849- EN ISO 10218-	-1, Cat.3, PL d, and -1
F/T Sensor - Force, x-y-z		F/T Sensor - T	Forque, x-y-z
Range	100 N	Range	10 Nm
Resolution	2.0 N	Resolution	0.02 Nm
Accuracy	5.5 N	Accuracy	0.60 Nm
Ambient temperature range Humidity		0-50°C	
		90% RH (non-c	condensing)

#### **Specification**

Payload	10 kg / 22 lbs
Reach	1300 mm / 51.2 in
Degrees of freedom	6 rotating joints DOF
Programming	Polyscope graphical user interface on 12 inch touchscreen with mounting

Movement		
Pose Repeatability	+/- 0.05 mm, wit	h payload, per ISO 9283
Axis movement robot arm	Working range	Maximum speed
Base	± 360°	±120°/Sec.
Shoulder	± 360°	±120°/Sec.
Elbow	± 360°	±180°/Sec.
Wrist 1	± 360°	±180°/Sec.
Wrist 2	± 360°	±180°/Sec.
Wrist 3	± 360°	±180°/Sec.
Typical TCP speed		1 m/Sec./ 39.4 in/Sec.

#### **Features**

IP classification	IP54
ISO Class Cleanroom	5
Noise	Less than 65 dB(A)
Robot mounting	Any Orientation
I/O Ports	Digital in 2 Digital out 2 Analog in 2 Analog out 0 UART interface (9.6k-5Mbps)
I/O power supply in tool	12V/24V 600mA continuous, 2A for shorter periods

#### **Physical**

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Footprint	Ø 190 mm
Materials	Aluminium, Plastic, Steel
Tool (end-effector) connector type	M8   M8 8-pin
Cable length robot arm	6 m / 236 in
Weight including cable	33.5 kg / 73.9 lbs



# **Control box**

#### **Performance**

IP classification	IP44	
ISO Class Cleanroom	6	
Ambient temperature range	0-50°C	
I/O Ports	Digital in 16 Digital out 16 Analog in 2 Analog out 2 500 Hz control, 4 separated high speed quadrature digital inputs	
I/O power supply	24V 2A	
Communication	Control frequency: 500 Hz ModbusTCP: 500 Hz signal frequency ProfiNet and EthernetIP: 500 Hz signal frequency USB ports: 1 USB 2.0, 1 USB 3.0	
Power source	100-240 VAC, 47-440Hz	
Humidity	90% RH (non-condensing)	

## **Physical**

Control box size (WxHxD)	475 mm x 423 mm x 268 mm 18.7 in x 16.7 in x 10.6 in
Weight	Max 13.6 kg / 30.0 lbs
Materials	Steel

# **Teach pendant**

#### **Features**

IP classification	IP54
Humidity	90% RH (non-condensing)
Display resolution	1280 x 800 pixels

### **Physical**

Materials	Plastic
Weight including 1m of TP cable	1.6 kg / 3.5 lbs
Cable length	4.5 m / 177.17 in

