Chem

Energy Pharm

Food Water



Polished stainless steel for food and pharmaceutical applications



Powder-coated steel for corrosive environments

Unical 9000

The electro-pneumatic controller for fully automated pH measurement, cleaning and calibration

In combination with the Protos process analysis system and the SensoGate or Ceramat sensor lock-gates, Unical offers the ideal functionality of a complete system for automatic process control of a pH measurment. It allows highly accurate measurements to be taken, even with difficult process conditions such as high pressure, high temperatures, and high levels of impurities. The system can be installed next to the process, within the hazardous area.

Maximum availability of the point of measurement: Cleaning without interrupting the process, even when measuring directly in the pressure tank

Since the sensor is not removed for cleaning, the process can continue uninterrupted. This allows problem-free measurements in a pressure tank or in the main pipe. Elaborate and lockable bypasses are eliminated and accuracy increases.

Low maintenance

Fully automatic sensor calibration in user-defined intervals without interrupting the process. Two buffer solutions are automatically pumped into the calibration chamber. Only the buffer bottles need to be refilled.

Cost-efficient

Low-wear and low-maintenance pump with extremely low consumption of buffer.

Long sensor life – also in critical processes

When measuring in aggressive media or at high process temperatures, the sensor rests in the calibration chamber and is only briefly moved into the process for measurement. This method decisively increases the sensor life.

Safe and easy measurement, even in strongly polluted media

Sensor cleaning and rinsing are performed at user-defined intervals. Cleaning solution and water are automatically pumped into the calibration chamber. Dismounting and manual cleaning of the sensor are not required.

Distinction between calibration and adjustment

This allows you to check the sensor data in the running process. An adjustment is only carried out when preset deviations of the calibration values are exceeded. Constant displacement of the measured values due to small calibration scatters is omitted.

Modern fieldbus integration

The interfaces to PROFIBUS PA or FOUNDATION Fieldbus allow the Unical system to be integrated directly in a fieldbus network. Naturally also in hazardous locations.

Universal adaptation to retractable fittings

The modular structure of the Unical allows any retractable fittings to be used. Optimum functionality is achieved with the Ceramat and SensoGate sensor lock-gates.

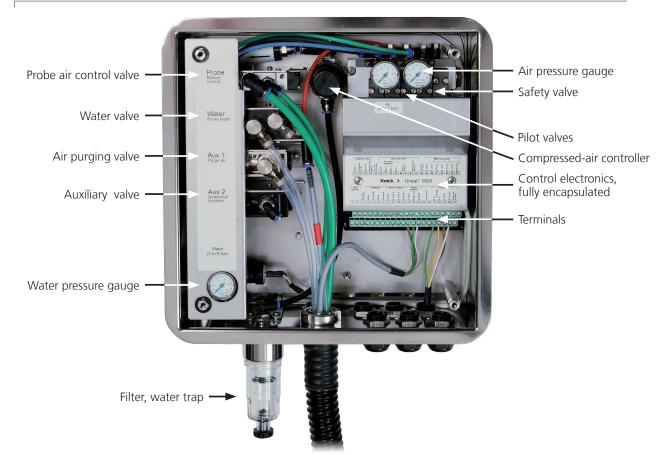
Clean and safe construction

All features for smooth, safe, and lowmaintenance operation are provided as standard: water pressure gauge and service switch with alert message and check-back signal of the actual probe position, air filter and water trap integrated, flooding sensor with alert message.

Facts

- consistent enclosure concept for all devices
- modular design, adaptable to virtually every measuring task
- easy assembly and retrofitting
- tidy hose guiding
- hygienic version (polished stainless steel) or corrosion-proof (powder-coated steel)
- no entrainment and backmixing due to separate routing of the media
- low maintenance effort due to innovative pump technology and extremely low consumption of media
- automatic 2-point calibration
- time-controlled cleaning and checking

- cleaning with water and additional cleaning solution
- reduced maintenance effort due to automatic calibration
- no interruptions in production for calibration
- operation in hazardous locations Zone 1 (all system components)
- longer sensor life due to short-time measurement and regular cleaning
- immediate readiness for measurement after production interruption since sensor is safely stored in liquid
- safety ensured by monitoring of the compressed air and water supply, the probe position and the buffer and cleaning solution level



Inside View

The valve units are expandable.

Control Systems Chem Energy Pharm Food Water

Unical 9000

New, Innovative Pump Design for Low Maintenance Costs

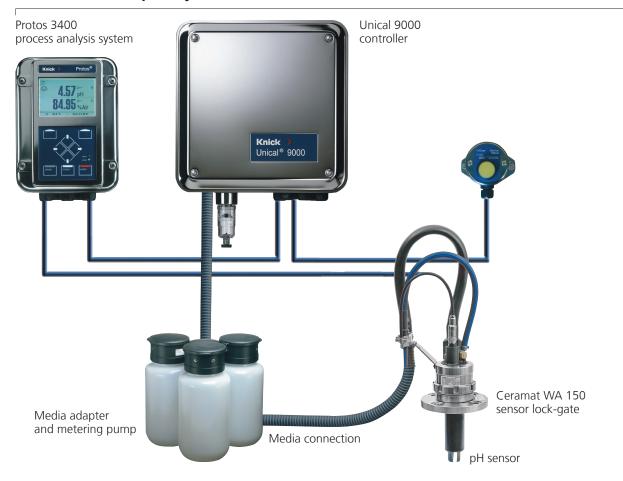


Modular Flexibility for Very Simple Adaptation

- The buffer or cleaning solution bottles (3.5 l) are replaceable active, self-sustaining units with integrated pump: easy refilling of buffer or cleaning solution, without removing the pump
- The pump units are automatically recognized by the system.
- The closure consists of a conveyor cap with funnel and buttoned lid.
- This innovative construction provides previously unknown flexibility and service friendliness.

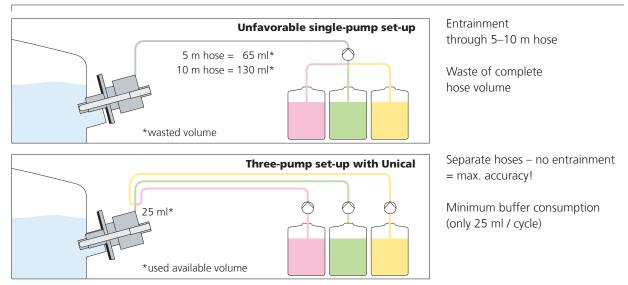






Overview – The Complete System





Chem

Energy Pharm

Water

Unical 9000

Specifications

Compressed air	oil- and condensate-free
Permitted pressure range	4 10 bar
Pressure monitoring	automatic monitoring, message
Connection	1/4" internal thread
Rinse water	filtered 100 μm
Permitted pressure range	2 6 bar
Temperature range	5 6 °C
Pressure monitoring	automatic monitoring, message
Connection	1/4" internal thread and 3/4" external thread (for coupling)
Pump (option)	for buffer solution/cleaning solution
Number of bottles	max. 3
Usable bottle volume	3.5
Max. lifting height	10 m
Displaced volume	25 ml/stroke
Level monitoring	continuous, messages
Material	PP, PE, EPDM, (optional FKM), check valves: glass, HC4
Dimensions	150 mm x 150 mm x 340 mm with 3.5-L bottle
Weight	approx. 1.5 kg (with empty 3.5-L bottle)
Supply	supplied via Protos PHU module
(Ex ia IIC)	Vi = 8.5 V li = 200 mA Pi = 400 mW 6.8 V (± 10 %) / 15 mA
Connection	terminals, conductor cross section max 2.5 mm ² (preassembled connecting cable to Protos 3400)
RS 485	communication with Protos PHU module or external host computer (e.g. DCS/PLC)
(Ex ia)	Vi/Vo = 5 V li/lo = 250 mA Ri = 20 ohms
Transmission	1200 bauds/8 data bits/1 stop bit/no parity
Security	CRC16
Connection	terminals, conductor cross section max 2.5 mm ² (preassembled connecting cable to Protos 3400) max. length 10 m
Media connection	compact multiplug connection for 3 x buffer, 1 x rinse water, 1 x cleaning solution, 1 x purge air, 5 integrated check valves for buffer solution, water and cleaning solution, 2 x compressed air connection for drive, noncontacting electrical limit position control
Media adapter	approx. 2 kg
Service switch	wall or pipe mounting (Ø 30 65 mm), cable length -> Unical 9000: 5 m (opt. 10m)
DCS Input M/S	Measuring/Service
(Ex ia IIC)	Vi = 30 V, floating, galvanic isolation up to 60 V

Specifications – continued

Switching voltage 0 2 V AC/DC inactive (measuring) active (service) Connection terminals, conductor cross section max. 2.5 mm² DCS input A/M automatic mechanism blocked (Ex ia IIC) Vi = 30 V, floating, galvanic isolation up to 60 V Switching voltage 0 2 V AC/DC inactive (automatic intervals enabled) active (automatic intervals blocked) Connection terminals, conductor cross section max. 2.5 mm² DCS inputs PRG1 3 program selection 1 8 (Ex ia IIC) Vi = 30 V, floating, inter-connected, galvanic isolation up to 60 V Switching voltage 0 2 V AC/DC Connection terminals, conductor cross section max. 2.5 mm² DCS outputs ML1 3 check back signals: Service, measuring, program electronic relay contacts, floating, inter-connected DCS outputs ML1 3 check back signals: Service measuring, program electronic relay contacts, floating, inter-connected (Ex ia IIC) Vi = 30 V Ii = 100 mA Pi = 800 mW, galvanic isolation up to 60 V Voltage drop <1.2 V Connection terminals, conductor cross section max. 2.5 mm² Enclosing protection II 2(1)G Ex Ia IIC T4 EMC EN 61326 EN 61326 EN 61326		
DCS input A/M automatic mechanism blocked (Ex ia IIC) VI = 30 V, floating, galvanic isolation up to 60 V Switching voltage 0 2 V AC/DC inactive (automatic intervals enabled) 10 30 V AC/DC active (automatic isolation up to 60 V Switching voltage VI = 30 V, floating, inter-connected, galvanic isolation up to 60 V Switching voltage 0 2 V AC/DC inactive 10 30 V AC/DC active active Connection terminals, conductor cross section max. 2.5 mm² DCS outputs ML1 3 check-back signals: Service, measuring, program electronic relay contacts, floating, inter-connected Vi = 30 V Ii = 100 mA Pi = 800 mW, galvanic isolation up to 60 V Voltage drop <1.2 V	Switching voltage	
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DCS outputs ML1 3check-back signals: Service, measuring, program electronic relay contacts, floating, inter-connected(Ex ia IIC)Vi = 30 V li = 100 mA Pi = 800 mW, galvanic isolation up to 60 VVoltage drop< 1.2 V	Switching voltage	
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Voltage drop< 1.2 VConnectionterminals, conductor cross section max. 2.5 mm²Explosion protectionII 2(1)G Ex ia IIC T4EMCEN 61326 EN 61326/A1Lightning protectionEN 6100-4-5, Installation Class 2Protection against electric shockaccording to EN 61010Ambient conditions5 55 °C (Ex: 5 50 °C)Ambient temperature (different temperature range on request)Transport/Storage temperature Unical 9000 S Unical 9000 CStainless steel A2, polished Unical 9000 CAssemblywall and pipe mounting (see dimension drawing)DimensionsW x H x D approx. 320 mm x 400 mm x 120 mmIngress protectionIP 65/NEMA 4XCable glands6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	DCS outputs ML1 3	
Connectionterminals, conductor cross section max. 2.5 mm²Explosion protectionII 2(1)G Ex ia IIC T4EMCEN 61326 EN 61326/A1Lightning protectionEN 61000-4-5, Installation Class 2Protection against electric shockaccording to EN 61010Ambient conditions5 55 °C (Ex: 5 50 °C)Ambient temperature(different temperature range on request)Transport/Storage temperature-20 +70 °CRelative humidity10 95 %, not condensingEnclosureUnical 9000 S Unical 9000 CAssemblywall and pipe mounting (see dimension drawing)DimensionsW x H x D approx. 320 mm x 400 mm x 120 mmIngress protectionIP 65/NEMA 4XCable glands6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	(Ex ia IIC)	Vi = 30 V li = 100 mA Pi = 800 mW, galvanic isolation up to 60 V
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EMCEN 61326 EN 61326/A1Lightning protectionEN 61326/A1Lightning protectionEN 61000-4-5, Installation Class 2Protection against electric shockaccording to EN 61010Ambient conditions5 55 °C (Ex: 5 50 °C)Ambient temperature(different temperature range on request)Transport/Storage temperature-20 +70 °CRelative humidity10 95 %, not condensingEnclosureUnical 9000 SStainless steel A2, polished Unical 9000 CStainless steel A2, coated, color: pigeon blueAssemblywall and pipe mounting (see dimension drawing)DimensionsIV x H x D approx. 320 mm x 400 mm x 120 mmIngress protectionIP 65/NEMA 4XCable glands6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	Connection	terminals, conductor cross section max. 2.5 mm ²
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electric shock5 55 °C (Ex: 5 50 °C)Ambient conditions5 55 °C (Ex: 5 50 °C)Ambient temperature(different temperature range on request)Transport/Storage temperature-20 +70 °CRelative humidity10 95 %, not condensingEnclosureUnical 9000 SStainless steel A2, polished Unical 9000 CAssemblywall and pipe mounting (see dimension drawing)DimensionsW x H x D approx. 320 mm x 400 mm x 120 mmIngress protectionIP 65/NEMA 4XCable glands6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	Lightning protection	EN 61000-4-5, Installation Class 2
Ambient temperature(different temperature range on request)Transport/Storage temperature-20 +70 °CRelative humidity10 95 %, not condensingEnclosureUnical 9000 S Unical 9000 CAssemblywall and pipe mounting (see dimension drawing)DimensionsW x H x D approx. 320 mm x 400 mm x 120 mmIngress protectionIP 65/NEMA 4XCable glands6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	-	according to EN 61010
Transport/Storage temperature-20 +70 °CRelative humidity10 95 %, not condensingEnclosureUnical 9000 S Unical 9000 CAssemblywall and pipe mounting (see dimension drawing)DimensionsW x H x D approx. 320 mm x 400 mm x 120 mmIngress protectionIP 65/NEMA 4XCable glands6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	Ambient conditions	5 55 °C (Ex: 5 50 °C)
Relative humidity10 95 %, not condensingEnclosureUnical 9000 S Unical 9000 CStainless steel A2, polished Unical 9000 CAssemblywall and pipe mounting (see dimension drawing)DimensionsW x H x D approx. 320 mm x 400 mm x 120 mmIngress protectionIP 65/NEMA 4XCable glands6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	Ambient temperature	(different temperature range on request)
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Ingress protection IP 65/NEMA 4X Cable glands 6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	Assembly	wall and pipe mounting (see dimension drawing)
Cable glands 6 cable glands M20 x 1.5 knockouts for NPT 1/2" or Rigid Metallic Conduit	Dimensions	W x H x D approx. 320 mm x 400 mm x 120 mm
knockouts for NPT 1/2" or Rigid Metallic Conduit	Ingress protection	IP 65/NEMA 4X
Weight approx. 9 kg	Cable glands	
	Weight	approx. 9 kg

Chem Energy Pharm Food Water

Unical 9000

oduct Li	ine	Order No.													
sic unit		Unical 9000 /											- C		
	Explosion protection	for hazardous area Zone 1 none	X N												
	Enclosure	steel, coated stainless steel, polished		C S											
	Media connection (rinse function only)	5 m (sealing material: FKM) 10 m (sealing material: FKM) 15 m (sealing material: FKM)			1 2 5		0 0 0	0 0 0	0 0 0	0 0 0					
		5 m (sealing material: EPDM) 10 m (sealing material: EPDM) 15 m (sealing material: EPDM)			A B E		0 0 0	0 0 0	0 0 0	0 0 0					
	Media connection (calibration and rinse function)	5 m (sealing material: FKM) 10 m (sealing material: FKM) 17 m (sealing material: FKM)			3 4 6										
		5 m (sealing material: EPDM) 10 m (sealing material: EPDM) 17 m (sealing material: EPDM)			C D F										
	Media interface	with (for standard probes) without (for WA 130, WA 150, WA 160)				1 0									
	Media adapter with port I – III	with (sealing material: FKM) with (sealing material: EPDM) without					1 A 0								
	Port I	metering pump with empty 3.5-L bottle (EPDM none)					2 0							
	Port II	metering pump with empty 3.5 -L bottle (EPDN none	1)						2 0						
	Port III	metering pump with empty 3.5-L bottle (EPDM metering pump with empty 3.5-L bottle (FKM) none)							2 B 0					
	Supplementary air purging kit	with without									C N				
	Supplementary ext. valve kit	1 external valve none										E N			
	Special variant	none											C	0	

Shenzhen Yihuaxin Electronics Co., Ltd Tel:0755-86218000 Fax: 0755-86218111 E-mail:yhx@yihuaxin.net www.yihuaxin.net



Accessories for Unical 9000	Order No.
Pipe-mount kit for Unical 9000	ZU 0601
Pipe-mount kit for media adapter	ZU 0606
Connection kit for Unical 9000 (water and air)	ZU 0656
 Commissioning Unical 9000 Commissioning comprises the following steps: Connection of hoses and cables and commissioning of the Unical 9000 system. Training of operators Prior to arrival of our engineer, the customer must prepare the following: Protos 3400, Unical 9000 and retractable fitting assembled (Observe maximum length of connecting hose between Unical 9000 and retractable fitting). Electric supply: Cable ducts/rails must be present. Auxiliary power supply for Protos 3400 must be pre-installed in 2 x 1.5 mm wires. Air supply: Hose with connection nipple for G 1/4" internal thread. Nominal hose width > 6 mm. 	ZU 0649
Water supply: Hose with connection nipple for G 1/4" internal thread or G 3/4" external thread. Nominal hose width > 6 mm. Chemical pump (supplementary ext. valve kit required)	ZU 0741

Spare Parts and Retrofit Parts for Unical 9000	Order No.
Media connection, rinse, 5 m (FKM gaskets)	ZU 0572/1
Media connection, rinse, 5 m (EPDM gaskets)	ZU 0572/2
Media connection, rinse, 10 m (FKM gaskets)	ZU 0573/1
Media connection, rinse, 10 m (EPDM gaskets)	ZU 0573/2
Media connection, rinse, 15 m (FKM gaskets)	ZU 0652/1
Media connection, rinse, 15 m (EPDM gaskets)	ZU 0652/2
Media connection, rinse + cal, 5 m (FKM gaskets)	ZU 0574/1
Media connection, rinse + cal, 5 m (FKM gaskets), steel balls instead of glass balls*)	ZU 0574/1S
Media connection, rinse + cal, 5 m (EPDM gaskets)	ZU 0574/2
l Media connection, rinse + cal, 10 m (FKM gaskets) Media connection, rinse + cal, 10 m (EPDM gaskets)	ZU 0575/1 ZU 0575/2
Media connection, rinse + cal, 17 m (FKM gaskets)	ZU 0653/1
Media connection, rinse + cal, 17 m (EPDM gaskets)	ZU 0653/2
l Media interface for standard probes	ZU 0576
Metering pump (PP, FKM) with empty 3.5-L bottle	ZU 0580/1
Metering pump (PP, EPDM) with empty 3.5-L bottle	ZU 0580/2
Metering pump (PP, EPDM) with empty 3.5-L bottle, steel balls instead of glass balls*)	ZU 0580/2S
Metering pump (PP, FKM) with empty 3.5-L bottle, Ex	ZU 0580 X/1
Metering pump (PP, EPDM) with empty 3.5-L bottle, Ex	ZU 0580 X/2

 $^{\star)}$ included with special version -001

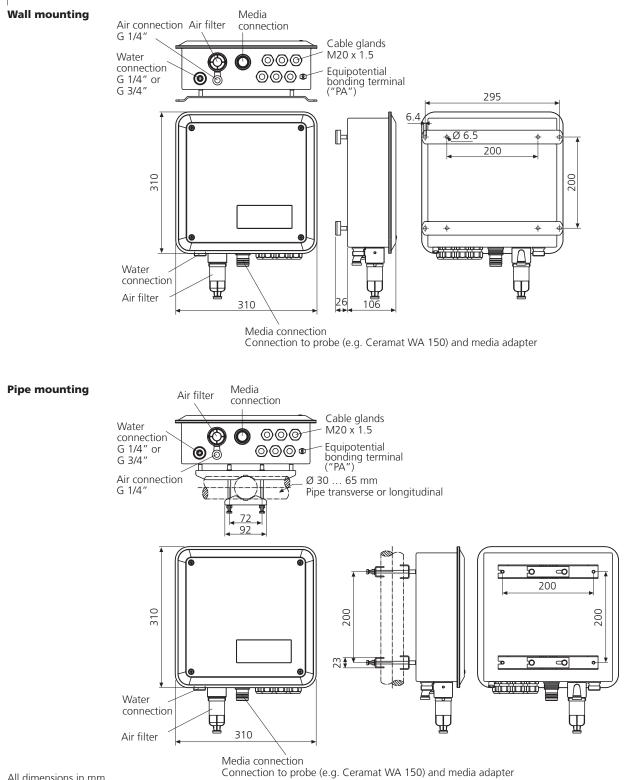


Unical 9000

Spare Parts and Retrofit Parts for Unical 9000 – continued	Order No.
Supplementary air purging kit	ZU 0587
Supplementary Aux 2 kit	ZU 0588
Media adapter (FKM gaskets)	ZU 0577/1
Media adapter (EPDM gaskets)	ZU 0577/2
Media adapter, Ex (FKM gaskets)	ZU 0577 X/1
Media adapter, Ex (EPDM gaskets)	ZU 0577 X/2
Service switch, coated steel	ZU 0729 NC
Service switch, coated steel, Ex	ZU 0729 XC
Service switch, polished stainless steel	ZU 0729 NS
Service switch, polished stainless steel, Ex	ZU 0729 XS

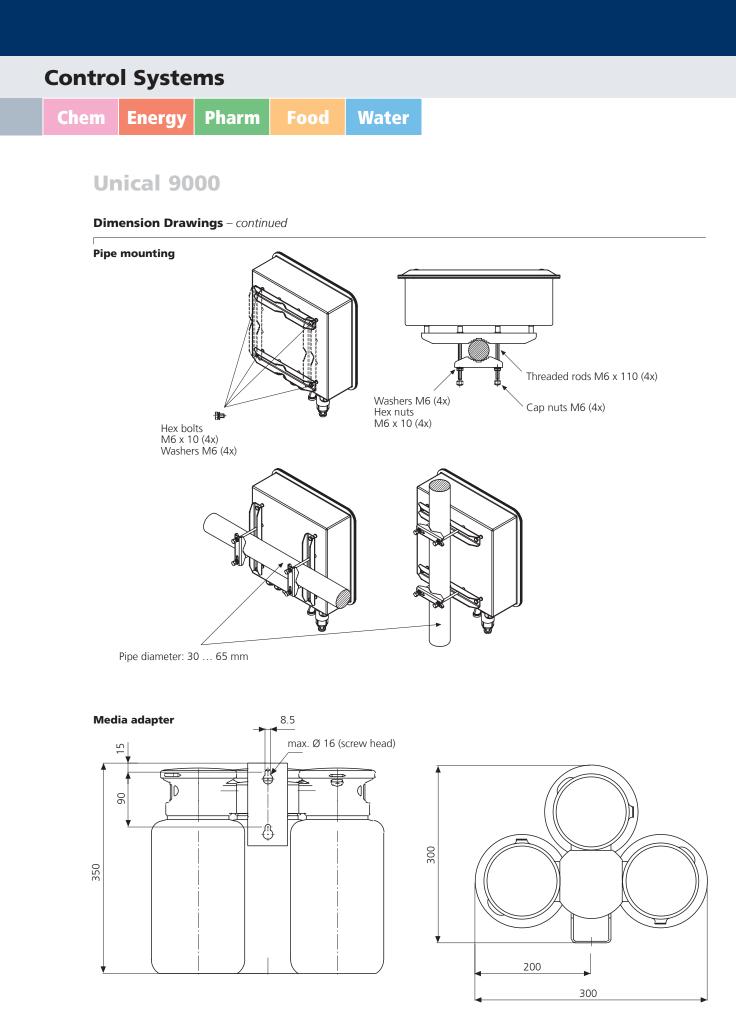
Service Parts for Unical 9000	Order No.
Air pressure switch Water pressure switch	ZU 0632 ZU 0633
Probe valve, complete Water valve	ZU 0634 ZU 0714
l Sensor dismount guard, complete	ZU 0644
Air purge valve, complete Aux 2 valve, complete Piezo valve for valve block	ZU 0636 ZU 0637 ZU 0638
l Gasket for port at media adapter (EPDM)	ZU 0639
Filter insert (5 10 μm)	ZU 0640
Replacement filter housing	ZU 0641
Electronics module, tested, encapsulated Electronics module, tested, encapsulated, Ex	ZU 0642 ZU 0642 X
small-parts set (various screws, springs etc.)	ZU 0643
Multiplug service set, FKM gaskets Multiplug service set, EPDM gaskets	ZU 0812/1 ZU 0812/2
Reed switch, short (service part for multiplug)	ZU 0813/1

Dimension Drawings

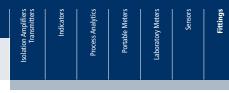


All dimensions in mm.

Shenzhen Yihuaxin Electronics Co., Ltd Tel:0755-86218000 Fax: 0755-86218111 E-mail:yhx@yihuaxin.net www.yihuaxin.net



All dimensions in mm.



Terminal Assignments

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ai				ing	onitor	Mo	Ē	1						ves	Val					1
GND Reserve GND Auxiliary ' GND Auxiliary ' GND Probe GND Safety GND Sense GND Sense GND Sense GND Sense GND Sense GND	GND Sense water stop	GND	e ce	z	_ ₽		e sure (GND	Safety	GND	- QP	GND	Water	z		z	=	z	PLA	GND

