

Tachometer	TU00-0752-5807102	01/14 	1-10 1
------------	-------------------	-----------	--------

Safety information

- The product was developed, manufactured and inspected according to the basic safety requirements of EC Guidelines and state-of-the-art technology.
- The instrument is designed for use in grounded vehicles and machines as well as in pleasure boats, including non-classified commercial shipping.
- Use our product only as intended. Use of the product for reasons other than its intended use may lead to personal injury, property damage or environmental damage. Before installation, check the vehicle documentation for vehicle type and any possible special features!
- Use the assembly plan to learn the location of the fuel/hydraulic/ compressed air and electrical lines!
- Note possible modifications to the vehicle, which must be considered during installation!
- To prevent personal injury, property damage or environmental damage, basic knowledge of motor vehicle/shipbuilding electronics and mechanics is required.
- Make sure that the engine cannot start unintentionally during installation!
- Modifications or manipulations to VDO products can affect safety. Consequently, you may not modify or manipulate the product!
- When removing/installing seats, covers, etc., ensure that lines are not damaged and plug-in connections are not loosened!
- Note all data from other installed instruments with volatile electronic memories.



No smoking! No open fire or lights!

points must be safe from touch.

- Use appropriate measures to also protect the electrically conductive parts on the connected consumer from direct contact. Laying metallic, uninsulated cables and contacts is prohibited.

Safety after installation:

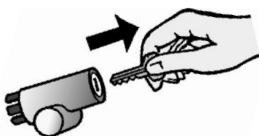
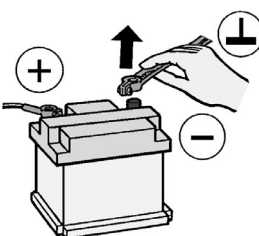
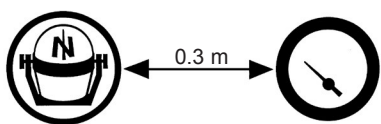

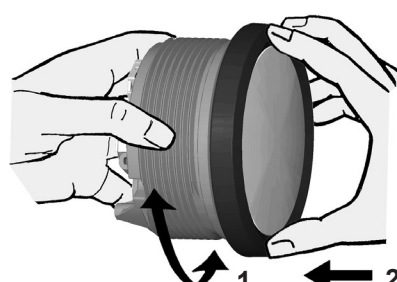
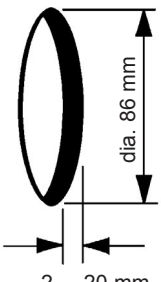
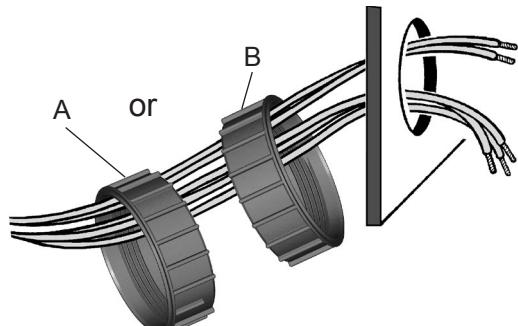
- Connect the ground cable tightly to the negative terminal of the battery.
- Reenter/reprogram the volatile electronic memory values.
- Check all functions.
- Use only clean water to clean the components. Note the Ingress Protection (IP) ratings (IEC 60529).

Electrical connection:

- Note cable cross-sectional area!
- Reducing the cable cross-sectional area leads to higher current density, which can cause the cable cross-sectional area in question to heat up!
- When installing electrical cables, use the provided cable ducts and harnesses; however, do not run cables parallel to ignition cables or to cables that lead to large electricity consumers.
- Fasten cables with cable ties or adhesive tape. Do not run cables over moving parts. Do not attach cables to the steering column!
- Ensure that cables are not subject to tensile, compressive or shearing forces.
- If cables are run through drill holes, protect them using rubber sleeves or the like.
- Use only one cable stripper to strip the cable. Adjust the stripper so that stranded wires are not damaged or separated.
- Use only a soft soldering process or commercially available crimp connector to solder new cable connections!
- Make crimp connections with cable crimping pliers only. Follow the safety instructions of the tool manufacturer.
- Insulate exposed stranded wires to prevent short circuits.
- Caution: Risk of short circuit if junctions are faulty or cables are damaged.
- Short circuits in the vehicle network can cause fires, battery explosions and damages to other electronic systems. Consequently, all power supply cable connections must be provided with weldable connectors and be sufficiently insulated.
- Ensure ground connections are sound.
- Faulty connections can cause short circuits. Only connect cables according to the electrical wiring diagram.
- If operating the instrument on power supply units, note that the power supply unit must be stabilized and it must comply with the following standard: DIN EN 61000, Parts 6-1 to 6-4.

Safety during installation:

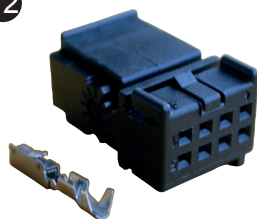
- During installation, ensure that the product's components do not affect or limit vehicle functions. Avoid damaging these components!
- Only install undamaged parts in a vehicle!
- During installation, ensure that the product does not impair the field of vision and that it cannot impact the driver's or passenger's head!
- A specialized technician should install the product. If you install the product yourself, wear appropriate work clothing. Do not wear loose clothing, as it may get caught in moving parts. Protect long hair with a hair net.
- When working on the on-board electronics, do not wear metallic or conductive jewelry such as necklaces, bracelets, rings, etc.
- If work on a running engine is required, exercise extreme caution. Wear only appropriate work clothing as you are at risk of personal injury, resulting from being crushed or burned.
- Before beginning, disconnect the negative terminal on the battery, otherwise you risk a short circuit. If the vehicle is supplied by auxiliary batteries, you must also disconnect the negative terminals on these batteries! Short circuits can cause fires, battery explosions and damages to other electronic systems. Please note that when you disconnect the battery, all volatile electronic memories lose their input values and must be reprogrammed.
- If working on gasoline boat motors, let the motor compartment fan run before beginning work.
- Pay attention to how lines and cable harnesses are laid so that you do not drill or saw through them!
- Do not install the product in the mechanical and electrical airbag area!
- Do not drill holes or ports in load-bearing or stabilizing stays or tie bars!
- When working underneath the vehicle, secure it according to the specifications from the vehicle manufacturer.
- Note the necessary clearance behind the drill hole or port at the installation location. Required mounting depth: 65 mm.
- Drill small ports; enlarge and complete them, if necessary, using taper milling tools, saber saws, keyhole saws or files. Debur edges. Follow the safety instructions of the tool manufacturer.
- Use only insulated tools, if work is necessary on live parts.
- Use only the multimeter or diode test lamps provided, to measure voltages and currents in the vehicle/machine or boat. Use of conventional test lamps can cause damage to control units or other electronic systems.
- The electrical indicator outputs and cables connected to them must be protected from direct contact and damage. The cables in use must have sufficient insulation and electric strength and the contact

Tachometer		TU00-0752-5807102		01/14 GB		1-10 2																			
Procedures for installing VDO Viewline instruments																									
1				Before beginning, turn off the ignition and remove the ignition key. If necessary, remove the main circuit switch.																					
2				<div>Disconnect the negative terminal on the battery. Make sure the battery cannot unintentionally restart.</div> <div>• Before taking any action, disconnect the negative terminal on the battery, otherwise you risk a short circuit. If the vehicle is supplied by auxiliary batteries, you must also disconnect the negative terminals on these batteries! Short circuits can cause fires, battery explosions and damages to other electronic systems. Please note that when you disconnect the battery, all volatile electronic memories lose their input values and must be reprogrammed.</div>																					
3				If installing the instrument near a magnetic compass, note the magnetic safe distance to the compass.																					
4				<div>The following rings may be installed as alternatives to the supplied front ring:</div> <table><tr><td>Front ring, flat; black</td><td>A2C53192911</td></tr><tr><td>Front ring, flat; white</td><td>A2C53192912</td></tr><tr><td>Front ring, flat; chrome</td><td>A2C53192910</td></tr><tr><td>Front ring, triangular; black</td><td>A2C53192917</td></tr><tr><td>Front ring, triangular; white</td><td>A2C53192920</td></tr><tr><td>Front ring, triangular; chrome</td><td>A2C53192918</td></tr><tr><td>Front ring, round; black</td><td>A2C53192913</td></tr><tr><td>Front ring, round; white</td><td>A2C53192916</td></tr><tr><td>Front ring, round; chrome</td><td>A2C53192914</td></tr></table>				Front ring, flat; black	A2C53192911	Front ring, flat; white	A2C53192912	Front ring, flat; chrome	A2C53192910	Front ring, triangular; black	A2C53192917	Front ring, triangular; white	A2C53192920	Front ring, triangular; chrome	A2C53192918	Front ring, round; black	A2C53192913	Front ring, round; white	A2C53192916	Front ring, round; chrome	A2C53192914
Front ring, flat; black	A2C53192911																								
Front ring, flat; white	A2C53192912																								
Front ring, flat; chrome	A2C53192910																								
Front ring, triangular; black	A2C53192917																								
Front ring, triangular; white	A2C53192920																								
Front ring, triangular; chrome	A2C53192918																								
Front ring, round; black	A2C53192913																								
Front ring, round; white	A2C53192916																								
Front ring, round; chrome	A2C53192914																								
5				Place the new front ring on the instrument, rotate it until the ring's lip locks into the slots in the housing and press the front ring until it is flush with the instrument glass.																					
6				<div>Conventional assembly. (Instrument is put into the drill hole from the front). The panel width may be within a range of 2 to 20 mm. The drill hole must have a diameter of 86 mm.</div> <div>• Do not drill holes or ports in load-bearing or stabilizing stays or tie bars! • Note the necessary clearance behind the drill hole or port at the installation location. Required mounting depth: 65 mm. • Drill small ports; enlarge and complete them, if necessary using taper milling tools, saber saw, keyhole saw or file. Debur edges. Follow the safety instructions of the tool manufacturer.</div>																					
7				<div>For 85 mm instruments, the fastening nut can be mounted at position A or B. This allows you to fixe the gauge in different panel bores.</div> <table><tr><td>Version A</td><td>Panel bore 80.5 - 81 mm Circumferential lip away from instrument</td></tr><tr><td>Version B</td><td>Panel bore 85.5 - 86 mm Circumferential lip next to instrument</td></tr></table>				Version A	Panel bore 80.5 - 81 mm Circumferential lip away from instrument	Version B	Panel bore 85.5 - 86 mm Circumferential lip next to instrument														
Version A	Panel bore 80.5 - 81 mm Circumferential lip away from instrument																								
Version B	Panel bore 85.5 - 86 mm Circumferential lip next to instrument																								

<div data-bbox="134 136 277 159" data-label="Text">Tachometer</div> <div data-bbox="900 143 1200 176" data-label="Text">TU00-0752-5807102</div> <div data-bbox="1243 136 1310 159" data-label="Text">01/14</div> <div data-bbox="1243 165 1310 194" data-label="Text">GB</div> <div data-bbox="1345 143 1437 170" data-label="Text">1-10 3</div>	<div data-bbox="134 215 172 253" data-label="Text">8</div> <div data-bbox="296 215 598 647" data-label="Image"> </div> <div data-bbox="861 212 1461 421" data-label="Text"> <p>If the instrument is mounted flush (i.e., from the back so that the instrument glass and the panel form one plane), the front ring must be removed. Press the instrument glass with both thumbs, while at the same time pressing the front ring forward from the instrument with both index fingers. Note the use of a tool in the adjacent figure.</p> </div> <div data-bbox="134 674 172 712" data-label="Text">9</div> <div data-bbox="196 689 378 1021" data-label="Image"> </div> <div data-bbox="435 792 515 862" data-label="Image"> </div> <div data-bbox="430 889 1452 1023" data-label="List-Group"> <ul style="list-style-type: none"> • Do not drill holes or ports in load-bearing or stabilizing stays or tie bars! • Note the necessary clearance behind the drill hole or port at the installation location. Required mounting depth: 65 mm. • Drill small ports; enlarge and complete them, if necessary using taper milling tools, saber saw, keyhole saw or file. Deburr edges. Follow the safety instructions of the tool manufacturer. </div> <div data-bbox="861 669 1056 701" data-label="Section-Header"> <h2>Flush assembly.</h2> </div> <div data-bbox="861 703 1418 826" data-label="Text"> <p>The recommended panel thickness is 1.5 to 3 mm. The drill hole must have a diameter of 75.4 mm. Ensure that the installation location is level and has no sharp edges.</p> </div> <div data-bbox="134 1059 172 1097" data-label="Text">10</div> <div data-bbox="229 1059 603 1462" data-label="Image"> </div> <div data-bbox="861 1055 1447 1236" data-label="Text"> <p>Place the flush mount seal A2C53215641 on the instrument glass. Put the instrument into the drill hole from the back. Adjust the instrument so that the gauge is level and fasten it to the stud bolts on the rear side of the panel, using the flush mount fixing bracket A2C59510864.</p> </div> <div data-bbox="134 1525 172 1563" data-label="Text">11</div> <div data-bbox="162 1525 576 2011" data-label="Image"> </div> <div data-bbox="611 1491 1452 1583" data-label="Text"> <p>Depending on the configuration, insert the cable into the 8-pin and 14-pin contact housing according to the following pin assignment. The contacts must audibly lock into place.</p> </div> <div data-bbox="611 1612 871 1644" data-label="Section-Header"> <h2>8-pin contact housing</h2> </div> <div data-bbox="611 1641 978 1883" data-label="List-Group"> <ul style="list-style-type: none"> Pin 1 - Term. 30 - battery 12/24 V Pin 2 - Term. 31 - ground Pin 3 - signal ground Pin 4 - Term. 15 - ignition plus Pin 5 - sensor signal Pin 6 - Term. 58 - lighting Pin 7 - programming port Tx Pin 8 - programming port Rx </div> <div data-bbox="1018 1612 1294 1644" data-label="Section-Header"> <h2>14-pin contact housing</h2> </div> <div data-bbox="1018 1641 1425 2063" data-label="List-Group"> <ul style="list-style-type: none"> Pin 1 - unassigned Pin 2 - unassigned Pin 3 - unassigned Pin 4 - unassigned Pin 5 - unassigned Pin 6 - unassigned Pin 7 - unassigned Pin 8 - unassigned Pin 9 - unassigned Pin 10 - unassigned Pin 11 - Configuration key Pin 12 - Mode key Pin 13 - Alarm output (max 100 mA)* Pin 14 - unassigned </div> <div data-bbox="1024 2060 1420 2123" data-label="Text"> <p>* optional, please contact your VDO partner for more information.</p> </div> <div data-bbox="130 2056 697 2119" data-label="Text"> <p>Now insert the plug into the gauge. Note the inverse polarity protection nose in the process.</p> </div>
--	---

Tachometer	TU00-0752-5807102	01/14	1-10 4

12



Connector set, 8-pin
- A2C59510850

Connector set, 14-pin
- A2C59510851



Electrical connection:

- Electrical connection:
- Note cable cross-sectional area!
- Reducing the cable cross-sectional area leads to higher current density, which can cause the cable cross-sectional area in question to heat up!
- When installing electrical cable, use the provided cable ducts and harnesses, however, do not run cables parallel to ignition cables or to cables that lead to large electricity consumers.
- Fasten cables with cable ties or adhesive tape. Do not run cables over moving parts. Do not attach cables to the steering column!
- Ensure that cables are not subject to tensile, compressive or shearing forces.
- If cables are run through drill holes, protect them using rubber sleeves or the like.
- Use only one cable stripper to strip the cable. Adjust the stripper so that stranded wires are not damaged or separated.
- Only use a soft soldering process or commercially available crimp connector to solder new cable connections!
- Only make crimp connections with cable crimping pliers. Follow the safety instructions of the tool manufacturer.
- Insulate exposed stranded wires to prevent short circuits.
- Caution: Risk of short circuit if junctions are faulty or cables are damaged.
- Short circuits in the vehicle network can cause fires, battery explosions and damages to other electronic systems. Consequently, all power supply cable connections must be provided with weldable connectors and sufficiently insulated.
- Ensure ground connections are sound.
- Faulty connections can cause short circuits. Only connect cables according to the electrical wiring diagram.
- If operating the instrument on power supply units, note that the power supply unit must be stabilized and it must comply with the following standard: DIN EN 61000, Parts 6-1 to 6-4.

Use the following connector to connect the instrument:

Connector set, 8-pin - A2C59510850

Connector set, 14-pin - A2C59510851

The connector set is designed for a cable cross-section of 0.25 - 0.5 mm².

For other cross-sections, please use contacts made by Tyco.

Single contacts: Tyco No. 1355718-1 for 0.14 - 0.22 mm²

Tyco No. 963729-1 for 0.5 - 0.75 mm²

Strip:

Tyco No. 1355717-1 for 0.14 - 0.22 mm²

Tyco No. 963715-1 for 0.5 - 0.75 mm²

Create a crimp connection using the contacts and the corresponding cables. Follow the instructions of the hand pliers manufacturer. Use the following for this:

Hand pliers Tyco No. 539635-1

And the tool Tyco No. 539682-2 for these hand pliers.

Pay special attention to whether the crimp barrel clutches all individual wires in the cable, otherwise you risk a short circuit!

13

Designations in the wiring diagram:

30 - terminal 30 - steady-state plus 12 V

15 - terminal 15 - connected (ignition) plus

58 - terminal 58 - lighting

31 - terminal 31 - ground

F1 - fuse 5A quick-response

C1 - 8-pin MQS connector

C2 - 14-pin MQS connector

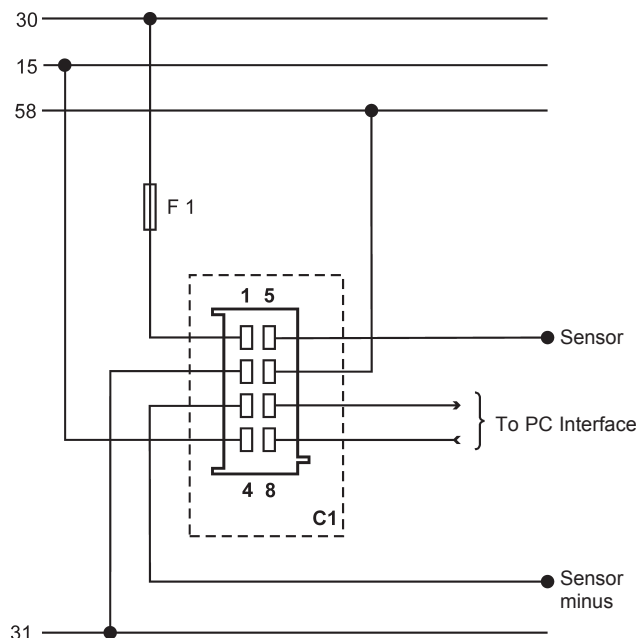
Config - Configuration key

Mode - Mode key

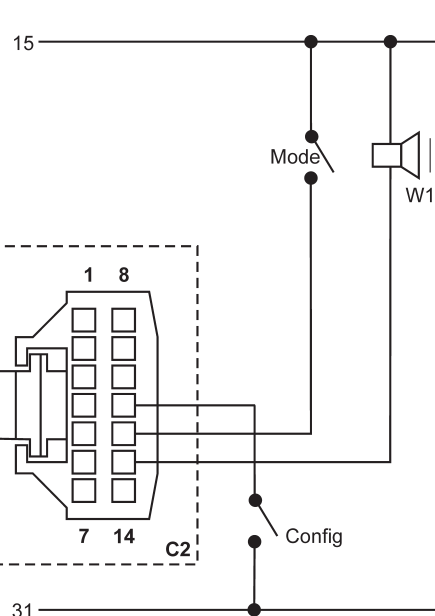
W1 - Alarm output (max. 100 mA)

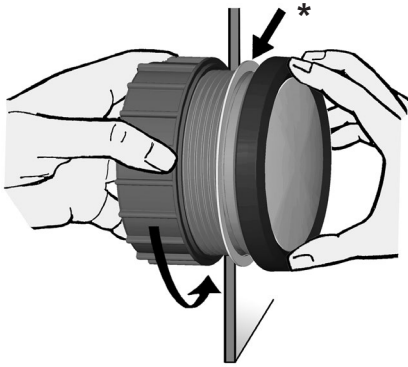
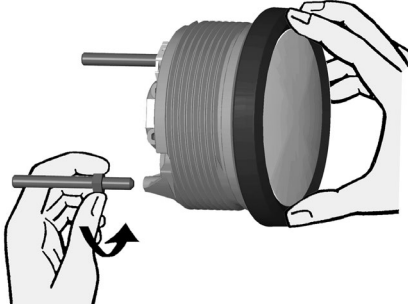
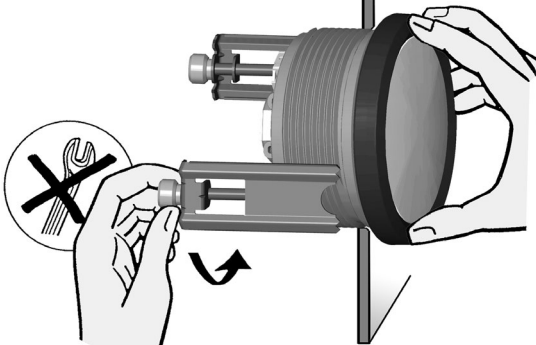
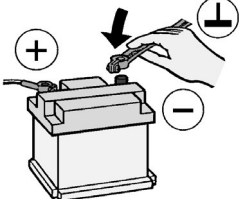

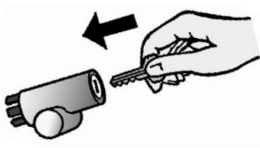
You must comply with the wiring diagram.







8-pin connection










14-pin connection









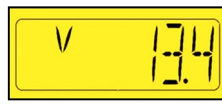


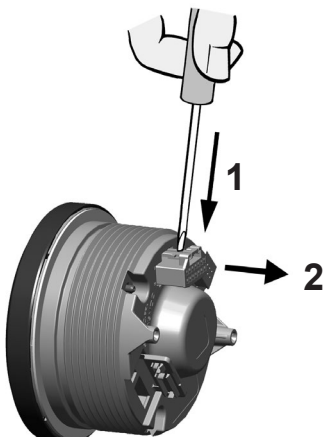
Tachometer	TU00-0752-5807102	01/14 	1-10 5
<p>14</p> 	<p>Align the instrument and hand-tighten the fastening nut. Ensure that the nut is not tightened with a torque greater than 400 Ncm.</p> <p>* Make sure the seal lays flat between the panel and the front ring.</p>		
<p>15</p> 	<p>If you would like to omit the fastening nut, you may use the part set A2C59510854 as an alternative. This is recommended if the installation location is subject to vibratory loads. Screw the stud bolts into the provided drill holes in the enclosure. Max. stud bolt torque is 1.5 Nm</p>		
<p>16</p> 	<p>Place the bracket on the stud bolt and hand-tighten the knurled nut.</p> <p>* Make sure the seal lays flat between the panel and the front ring (see Fig. 14).</p>		
<p>17</p> 	<p>Reconnect the battery after inspecting the connection.</p> <div data-bbox="767 1395 1461 1485">  <ul style="list-style-type: none"> Please note that when you disconnect the battery, all volatile electronic memories lose their input values and must be reprogrammed. </div>		
<p>18</p> 	<p>If necessary, replace the main circuit switch. Turn on the ignition and conduct a functional test. Reprogram other instruments that may have lost their saved settings.</p>		

Tachometer		TU00-0752-5807102		01/14	1-10 6
				GB	
<div>19 Operation</div> <div>Basics: Press the key briefly (< 2sec.) to change the currently displayed value. Press the key longer (> 2sec.) to change to the next value. The display returns to normal operating mode if a key is not pressed for 30 seconds. Any settings you have made are not saved.</div>					
<div>Startup</div> <div>1. Setting the impulse number</div>					
		1. Activate T. 30 (8-pin - Pin1) 2. Deactivate T. 15 (8-pin - Pin4) 3. Press and hold Config key (14-pin - Pin 11)			
		Activate T. 15 Release Config key			
					
		Press and hold Config key			
		Set impulse number is displayed, the first digit flashes.			
		Press Config key briefly			
		The flashing digit increases by 1. If the flashing digit is "9", the display returns to "0"			
		Press and hold Config key			
		The next lower digit flashes			
		Press Config key briefly			
		The flashing digit increases by 1. If the flashing digit is "9", the display returns to "0"			
		Continue until the complete impulse number is set			
		Press and hold Config key			
		Deactivate T. 15. This saves the impulse number in the display.			

Tachometer	TU00-0752-5807102	01/14 	1-10 7
2. Setting the unit (UNIT) and alarm threshold (Warn)			
	1. Activate T. 30 (8-pin - Pin1) 2. Deactivate T. 15 (8-pin - Pin4) 3. Press and hold Mode key (14-pin - Pin 12)		
	Activate T. 15 Release Mode key		
	Press and hold Mode key		
	By briefly pressing the Mode key, you can switch between 24h and 12h (AM/PM) clock format.		
	Press and hold Mode key		
	Press Mode key briefly		
	Press and hold Mode key		
	Set alarm threshold is displayed; the first digit flashes.		
	Press Mode key briefly		
	The flashing digit increases by 1. If the flashing digit is "9", the display returns to "0"		
	Press and hold Mode key		
	The next lower digit flashes.		
	Press Mode key briefly		
	The flashing digit increases by 1. If the flashing digit is "9", the display returns to "0"		
	Continue until the complete alarm threshold is set.		
	Press and hold Mode key		
	Deactivate T. 15. This saves the unit and the alarm threshold in the display.		

Tachometer		TU00-0752-5807102		01/14	1-10 8
					
In operation					
1. Display indicator selection					
		1. Activate T. 30 (8-pin - Pin1) 2. Activate T. 15 (8-pin - Pin4)			
Total operating hours					
		Press Mode key briefly			
Trip hours					
		Press Mode key briefly			
Time					
		Press Mode key briefly			
On-board voltage					
2. Resetting the day counter					
		1. Activate T. 30 (8-pin - Pin1) 2. Activate T. 15 (8-pin - Pin4)			
		Press the Mode key repeatedly until the trip hours are displayed			
					
		Press and hold Mode key			
					
		Trip is now deleted.			

Tachometer		TU00-0752-5807102	01/14 GB	1-10 9
3. Setting the clock				
	1. Activate T. 30 (8-pin - Pin1) 2. Activate T. 15 (8-pin - Pin4)			
	Press the Mode key repeatedly until the time is displayed			
	Press and hold Mode key			
	Set time is displayed; the first digit flashes.			
	Press Mode key briefly			
	The flashing digit increases by 1. If the flashing digit is "9", the display returns to "0"			
	Press and hold Mode key			
	The next lower digit flashes.			
	Press Mode key briefly			
	The flashing digit increases by 1. If the flashing digit is "9", the display returns to "0"			
	Continue until the correct time is set			
	Press and hold Mode key			
	Clock is set. Important: If T. 30 (8-pin - Pin1) is deactivated, the clock no longer runs.			
4. Setting the brightness				
	1. Activate T. 30 (8-pin - Pin1) 2. Activate T. 15 (8-pin - Pin4)			
	Press the Mode key repeatedly until the on-board voltage is displayed			
				
	Press and hold Mode key			
	Press the Mode key repeatedly until the desired brightness is reached The brightness can be set between 0 (OFF) to 10 (max).			
				
	Press and hold Mode key			
	The desired brightness is now permanently set.			

Tachometer		TU00-0752-5807102		01/14	1-10 10																																																																						
				GB																																																																							
20			To remove the connector, press the latch (1) and pull the connector out (2).																																																																								
21	Important: Clean the instrument glass and front frame with water only. Do not use chemical agents.																																																																										
22	<table><tr><td colspan="2">Accessories / Spare parts</td><td></td><td></td><td></td></tr><tr><td>Bush contacts 0.25 – 0.5 mm²</td><td>A2C59510846</td><td>Flush mount seal</td><td colspan="2">A2C53215641</td></tr><tr><td>Bush housing, 8-pin</td><td>A2C59510847</td><td>Fastening nut</td><td colspan="2">A2C53212238</td></tr><tr><td>Bush housing, 14-pin</td><td>A2C59510848</td><td>Front ring, flat; black</td><td colspan="2">A2C53192911</td></tr><tr><td>Hand pliers</td><td>Tyco No. 539635-1</td><td>Front ring, flat; white</td><td colspan="2">A2C53192912</td></tr><tr><td>Tool for hand pliers</td><td>Tyco No. 539682-2.</td><td>Front ring, flat; chrome</td><td colspan="2">A2C53192910</td></tr><tr><td>Single contacts 0.14 – 0.22 mm²</td><td>Tyco No. 1355718-1</td><td>Front ring, triangular; black</td><td colspan="2">A2C53192917</td></tr><tr><td>Single contacts 0.5 – 0.75 mm²</td><td>Tyco No. 963729-1</td><td>Front ring, triangular; white</td><td colspan="2">A2C53192920</td></tr><tr><td>Strip 0.14 – 0.22 mm²</td><td>Tyco No. 1355717-1</td><td>Front ring, triangular; chrome</td><td colspan="2">A2C53192918</td></tr><tr><td>Strip 0.25 – 0.5 mm²</td><td>Tyco No. 928999-1</td><td>Front ring, round; black</td><td colspan="2">A2C53192913</td></tr><tr><td>Strip 0.5 – 0.75 mm²</td><td>Tyco No. 963715-1</td><td>Front ring, round; white</td><td colspan="2">A2C53192916</td></tr><tr><td>Bracket assembly mounting set</td><td>A2C59510854</td><td>Front ring, round; chrome</td><td colspan="2">A2C53192914</td></tr><tr><td>Flush mount fixing bracket</td><td>A2C59510864</td><td>Protective connector cap, 8-pin</td><td colspan="2">A2C53324664</td></tr><tr><td></td><td></td><td>Protective connector cap, 14-pin</td><td colspan="2">A2C53324671</td></tr></table>					Accessories / Spare parts					Bush contacts 0.25 – 0.5 mm²	A2C59510846	Flush mount seal	A2C53215641		Bush housing, 8-pin	A2C59510847	Fastening nut	A2C53212238		Bush housing, 14-pin	A2C59510848	Front ring, flat; black	A2C53192911		Hand pliers	Tyco No. 539635-1	Front ring, flat; white	A2C53192912		Tool for hand pliers	Tyco No. 539682-2.	Front ring, flat; chrome	A2C53192910		Single contacts 0.14 – 0.22 mm²	Tyco No. 1355718-1	Front ring, triangular; black	A2C53192917		Single contacts 0.5 – 0.75 mm²	Tyco No. 963729-1	Front ring, triangular; white	A2C53192920		Strip 0.14 – 0.22 mm²	Tyco No. 1355717-1	Front ring, triangular; chrome	A2C53192918		Strip 0.25 – 0.5 mm²	Tyco No. 928999-1	Front ring, round; black	A2C53192913		Strip 0.5 – 0.75 mm²	Tyco No. 963715-1	Front ring, round; white	A2C53192916		Bracket assembly mounting set	A2C59510854	Front ring, round; chrome	A2C53192914		Flush mount fixing bracket	A2C59510864	Protective connector cap, 8-pin	A2C53324664				Protective connector cap, 14-pin	A2C53324671	
Accessories / Spare parts																																																																											
Bush contacts 0.25 – 0.5 mm²	A2C59510846	Flush mount seal	A2C53215641																																																																								
Bush housing, 8-pin	A2C59510847	Fastening nut	A2C53212238																																																																								
Bush housing, 14-pin	A2C59510848	Front ring, flat; black	A2C53192911																																																																								
Hand pliers	Tyco No. 539635-1	Front ring, flat; white	A2C53192912																																																																								
Tool for hand pliers	Tyco No. 539682-2.	Front ring, flat; chrome	A2C53192910																																																																								
Single contacts 0.14 – 0.22 mm²	Tyco No. 1355718-1	Front ring, triangular; black	A2C53192917																																																																								
Single contacts 0.5 – 0.75 mm²	Tyco No. 963729-1	Front ring, triangular; white	A2C53192920																																																																								
Strip 0.14 – 0.22 mm²	Tyco No. 1355717-1	Front ring, triangular; chrome	A2C53192918																																																																								
Strip 0.25 – 0.5 mm²	Tyco No. 928999-1	Front ring, round; black	A2C53192913																																																																								
Strip 0.5 – 0.75 mm²	Tyco No. 963715-1	Front ring, round; white	A2C53192916																																																																								
Bracket assembly mounting set	A2C59510854	Front ring, round; chrome	A2C53192914																																																																								
Flush mount fixing bracket	A2C59510864	Protective connector cap, 8-pin	A2C53324664																																																																								
		Protective connector cap, 14-pin	A2C53324671																																																																								