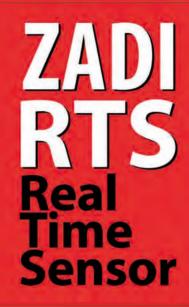
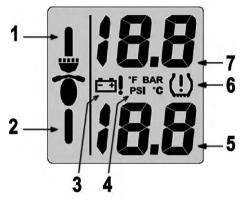
BIKE MANUALE DI ISTRUZIONI INSTRUCTIONS MANUAL BEDIENUNGSANLEITUNG





1





- 1. Icona pneumatico anteriore Front tyre icon Ikone Vorderreifen
- 2. Icona pneumatico posteriore Rear tyre icon Ikone Hinterreifen
- 3. Bassa tensione batteria unità centrale Central unit battery low Niedrige Batteriespannung Zentraleinheit
- 4. Unità di misura Units of measure Maßeinheit

- 5. Pressione e temperatura ruota posteriore Rear wheel pressure and temperature Druck und Temperatur Hinterreifen
- 6. Icona di allarme Alarm icon Alarm-Ikone
- 7. Pressione e temperatura ruota anteriore Front wheel pressure and temperature Druck und Temperatur Vorderreifen
- 8. Indicatore luminoso allarme Luminous alarm indicator Alarm-Leuchtanzeige

2

Fig. 2 - Kit composition

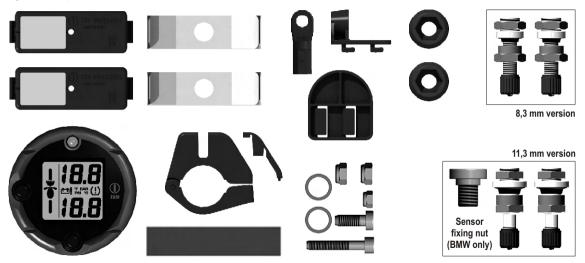
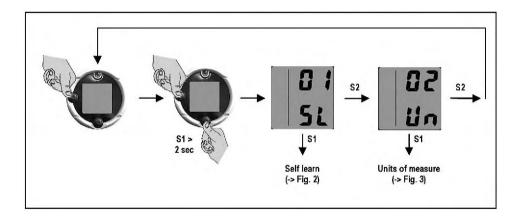


Fig. 3 - Menu



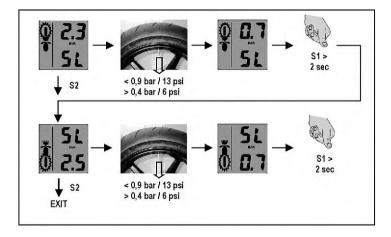
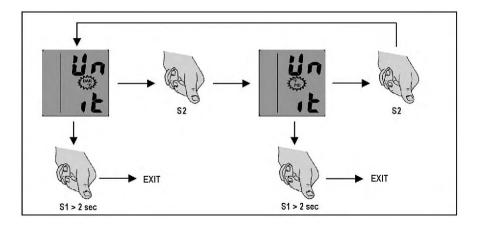
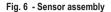


Fig. 5 - Units of measure





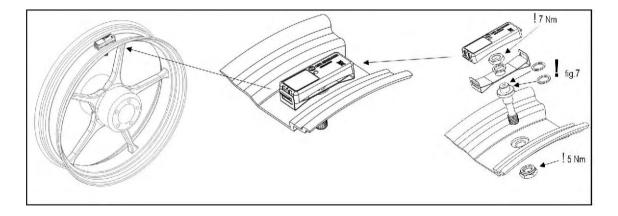


Fig. 7 - Sensor spring spacing

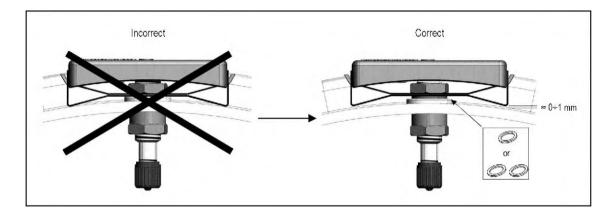


Fig. 8 - Central unit mounting options

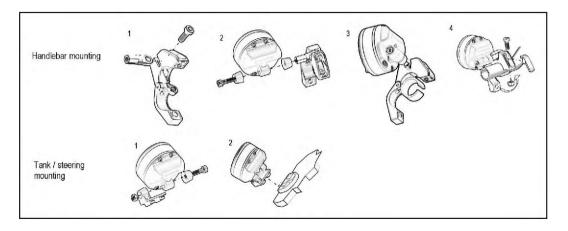
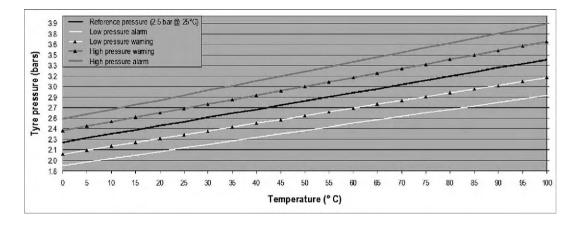


Fig. 9 - Temperature compensation diagram



Gentile Cliente,

La ringraziamo per aver scelto RTS Bike.

Il prodotto da Lei acquistato rappresenta il sistema più innovativo nel campo del monitoraggio dei pneumatici per moto: è completo, accurato ed offre prestazioni elevatissime.

Esso rappresenta il risultato della continua ricerca che ZADI svolge, da anni, nell'ambito della sicurezza di guida.

Prima dell'utilizzo leggere attentamente questo manuale, esso contiene importanti informazioni relative alla corretta installazione ed utilizzo del sistema.



Importanti informazioni preliminari:

RTS Bike è un sistema di monitoraggio in tempo reale della pressione e della temperatura dei pneumatici specifico per veicoli a due ruote. Esso deve essere considerato solo un ausilio alla guida e non deve essere inteso come sostituto alla ordinaria manutenzione e controllo delle gomme. Il sistema non impedisce al guidatore di avviare il veicolo se i pneumatici sono sgonfi; prima della partenza è quindi indispensabile verificare visivamente lo stato di gonfiaggio delle ruote.

La centrale deve essere posizionata in modo da non distrarre il conducente durante la guida. Non effettuare regolazioni mentre si sta guidando, ma arrestare il veicolo prima di operare sulla centralina.

In caso di scoppio, sgonfiamento molto rapido del pneumatico o danneggiamento del sensore, dovuti per esempio ad una buca profonda sul manto stradale, la centrale potrebbe non segnalare correttamente lo stato della ruota. Nel caso si sospetti una pressione non corretta, fermarsi alla prima stazione di servizio per controllare la pressione di tutti i pneumatici.

I sensori all'interno delle ruote, trasmettono i dati alla centrale tramite onde radio. In particolari condizioni (per esempio zone ad alta densità di disturbi elettromagnetici) la centrale potrebbe non ricevere temporaneamente i dati di pressione e segnalare la mancanza dei sensori.

La centralina compensa automaticamente le variazioni di pressione dovute a cambiamenti di temperatura all'interno del pneumatico. La soglia di allarme per bassa pressione, è impostata al 15% della pressione memorizzata e viene automaticamente ricalcolata in funzione della temperatura compensata (vedi fig. 9)

ZADI spa declina ogni responsabilità per ogni utilizzo e/o montaggio errato o non previsto del sistema. Attenersi scrupolosamente alle informazioni di installazione e utilizzo. La mancata osservanza di tutte le prescrizioni sopraindicate, concernenti le avvertenze in tema di installazione, uso e manutenzione del sensore, dal quale derivino, direttamente o indirettamente, danni a persone, cose o animali, dispensano ZADI spa da qualisais responsabilità

UTILIZZO

Modalità di funzionamento:

Per accendere l'unità centrale, premere a lungo (ca. 2 secondi) il pulsante S1 (ON/OFF) (fig. 1).

Per ridurre il consumo la retro-illuminazione normalmente è spenta, il display sarà comunque visibile durante il giorno.

La retro-illuminazione può essere attivata per 20 secondi premendo brevemente uno dei due pulsanti.

Durante il funzionamento, modalità ACTIVE, la centrale riconosce automaticamente se la moto si trova in movimento oppure è ferma e adegua la visualizzazione di conseguenza:

SLEEP: moto ferma da più di 5 minuti. In questa modalità il consumo della batteria risulta particolarmente ridotto. La centrale visualizza solamente l'icona della moto. Dopo 24h dall'ingresso in modalità SLEEP la centrale si spegne automaticamente per salvaguardare la durata della batteria Una breve pressione di S1 riporterà la centrale in modalità ACTIVE.

- RUN: moto in movimento. La centrale, oltre a dare segnalazioni di allarme come sopra, visualizza anche i parametri istantanei dei pneumatici, secondo le seguenti indicazioni:
 - · Visualizzazione continua della pressione dei pneumatici.
 - Visualizzazione continua della temperatura dei pneumatici.
 - Visualizzazione alternata di pressione e temperatura ogni 7 secondi.

In funzionamento RUN, il passaggio da un tipo di visualizzazione ad un'altro avviene con una breve pressione di S2 (MODE).

Allarmi

La centrale è dotata di due tipi di allarme visivo:

Se la pressione varia in misura maggiore del 7,5% rispetto a quella di riferimento compensata, si accende automaticamente la retro-illuminazione e sul display comincia a lampeggiare l'icona di allarme (vedi fig.1)

Se la pressione varia in misura maggiore del 15% o se la temperatura interna del pneumatico supera i 75°C (167°F), si accende automaticamente la retro-illuminazione, sul display comincia a lampeggiare l'icona di allarme e si accende ad intermittenza l'indicatore luminoso di allarme.

In entrambe le situazioni continuare a guidare il veicolo non è sicuro, è necessario fermarsi per controllare le condizioni delle gomme e effettuare le opportune operazioni di riparazione/ripristino della pressione, prima di ripartire.

Menù impostazioni della centrale: (fig. 3)

Per accedere al menù delle impostazioni, assicurarsi che la centrale sia completamente spenta. Premere e mantenere premuto S2 e contemporaneamente accendere la centralina con S1. Successivamente si possono scorrere le varie pagine del menù con una breve pressione del tasto S2. Per accedere ad una specifica pagina del menù premere brevemente S1. Dopo l'ingresso nel menù, se nessun tasto viene premuto per 30 secondi la centrale torna automaticamente al funzionamento normale. Ogni procedura ha un tempo limite per essere completata, se si eccede questo tempo si esce dalla procedura stessa e questa non viene completata.

Apprendimento sensori ruote: (fig. 4)

La centrale, durante le fasi di produzione, viene già accoppiata ai sensori forniti all'interno dello stesso kit. Se per una qualsiasi esigenza, fosse necessario memorizzare un nuovo sensore, si può procedere come segue:

- Entrare nel menù "1 SL"; L'icona del pneumatico anteriore comincerà a lampeggiare. Se si desidera passare al sensore posteriore premere brevemente S2.
- Sgonfiare il pneumatico anteriore portando la pressione ad un valore minore di 0,9 bar (13 psi) e maggiore di 0,4 bar (6 psi).
- Premere S1. Il led lampeggerà brevemente e l'icona del pneumatico anteriore diventa fissa: il codice del sensore anteriore è stato appreso e salvato in memoria. L'icona della ruota posteriore comincia a lampeggiare. Per uscire senza eseguire la procedura per la ruota posteriore premere S2.
- Procedere seguendo la stessa sequenza di operazioni utilizzata per il pneumatico anteriore.
- · A procedura ultimata la centrale torna automaticamente in modalità OFF.

Impostazione unità di misura: (fig. 5)

La centrale viene impostata durante la produzione con la visualizzazione di pressione e temperatura, rispettivamente in "BAR" e "°C". È possibile visualizzare questi valori anche in "PSI" e "°F".

- Entrare nel menù "2 Un"
- Le icone relative alle unità di misura attualmente in uso cominceranno a lampeggiare. Premere S1 per accettare queste unità di misura; un breve lampeggio del led confermerà la scelta. Per cambiare unità di misura premere S2 e confermare la scelta effettuata con la pressione di S1; il led lampeggerà brevemente.

Memorizzazione della pressione di riferimento:

La pressione di riferimento è quel valore di pressione dei pneumatici, su cui l'unità centrale calcola la soglie di warning e di allarme che sono fissate rispettivamente in ±7,5% e ±15%, rispetto alla pressione di riferimento memorizzata. Questo valore è compensato in temperatura, ciò significa che la centrale ricalcola automaticamente la soglia di allarme in base alla temperatura dell'aria all'interno del pneumatico.

Ogni volta che si modifica la pressione dei pneumatici (viaggio con passeggero, utilizzo in pista, ecc.) è necessario aggiornare la pressione di riferimento memorizzata, per far questo è sufficiente premere in qualsiasi momento S2 mantenendolo premuto per più di 2 secondi.

Installazione del sistema: (figg. 6-7-8)

- Rimuovere copertone e valvola di serie;
- Assemblare l'insieme sensore-valvola forniti nel kit come indicato nelle figure 6 e 7;
- Inserire la valvola nell'apposito foro sul cerchione e serrare a 5 Nm;
- Rimontare il pneumatico cominciando l'inserimento dalla parte opposta alla valvola, per non schiacciare il sensore sotto il bordo della gomma;
- · Procedere nello stesso modo per l'altro sensore.

Se necessario eseguire procedura di auto-apprendimento come indicato in figura 4. Questo step deve essere eseguito solo se si è installato un sensore in sostituzione a uno di quelli forniti nel kit originale, non è necessario all'atto del primo montaggio.

 \triangle

Dopo ogni installazione ripetere la memorizzazione della pressione di riferimento.

Qualora si debba smontare un pneumatico da un cerchio su cui è installato un sensore, cominciare sempre lo "stallonamento" dalla parte opposta alla vavola, tenendosi comunque lontani da questa, per evitare di danneggiare il dispositivo elettronico, schiacciandolo sotto il bordo della gomma.

Controllare attentamente che il diametro della valvola all'interno del kit sia compatibile con il diametro del foro sul cerchione della propria moto. Il sistema RTS è disponibile in diverse versioni, per adattarsi a tutti i tipi di valvola presenti sulle moto in produzione.

Per pulire la centrale utilizzare esclusivamente un panno morbido inumidito con acqua.

L'unità centrale è completamente a prova di spruzzi, tuttavia, non utilizzare acqua a pressione per lavare la moto quando la centralina è installata.

Il kit RTS può essere installato solo su cerchi equipaggiati con pneumatici tubeless (senza camera d'aria)

Dear customer, thank you for choosing RTS Bike. The product you purchased is the most innovative in the field of motorcycle tyre monitoring: it complete, accurate and offers very high performance. It is the result of ZADI continuous research and aims at improving riding safety.

Before installing and using RTS Bike, you should carefully read this manual. It contains important pieces of information for the correct installation and use of the device



Important preliminary information

RTS Bike is a real time tyre pressure and temperature monitoring system, specifically developed for two-wheels vehicles. You must consider it a driver's auxiliary device and by no means a substitute for the ordinary check and maintenance of the tyres.

RTS Bike does not prevent the rider from starting the vehicle if the tyres are flat. The device begins measuring temperature and pressure when wheels turn. Therefore, before starting the vehicle you must visually check the pressure status of the tyres.

The central unit must be installed in such a way as to prevent it from distracting the person riding the vehicle. Do not make any set-up while riding and stop your vehicle before operating on the central unit.

In case of tyre burst, tyre very fast deflation or sensor damages due, for example, to a deep road bump, the central unit could eventually not indicate the correct status of the tyre. Should you suspect an incorrect pressure figure, stop at the nearest service station to check the pressure of all tyres.

The sensors inside the tyres transmit data to the central unit by means of radio waves. In particular conditions (for examples areas with high density of electromagnetic interference) the central unit could temporarily not receive the pressure data and consequently indicate the absence of the sensors.

The central unit automatically compensate the changes of pressure due to temperature variations inside the tyre. The warning threshold value for low pressure is set at -15% of the memorized pressure value and is automatically recalculated based on the compensated temperature (see picture no.9)

ZADI declines any responsibility and shall not be liable for any incorrect or not foreseen installation or use of the device. You must carefully follow the installation and use instructions of this manual.

ZADI declines any responsibility and shall not be liable for any direct or indirect damage caused to persons, objects or animals by the missing observance of any of the instructions of this manual.

USE

How it works:

To start the central unit push for at least 3 sec. the S1 (On/Off) button (picture no.1).

In order reduce energy consumption the backlight is normally off, the display will in any case be visible in daylight. The backlight may be activated for 10 seconds by shortly pushing one of the two buttons (S1).

If the central unit has been started, and is therefore in ACTIVE mode, it automatically detects if the motorcycle is moving or not and consequently changes the visualization in:

SLEEP: when the motorcycle has not moved for more than 5 minutes. In this mode the battery consumption is considerably reduced. The central unit only shows the motorcycle icon. After 24 hours of SLEEP mode the central unit will automatically turn of to preserve battery life. To restore the ACTIVE mode shortly press S1.

RUN: the motorcycle moves. The central unit, besides warning the rider as described above, shows the instant parameters in the following options:

- · Continuous visualization of the tyres pressure
- · Continuous visualization of the tyres temperature
- Alternating visualization of pressure and temperature every 7 seconds.

In RUN mode, to switch from a visualization option to the other, shortly push the S2 (MODE) button.

Alarms

The central unit is equipped with two types of visual alarms:

If the pressure values become at least 7,5% lower or higher than the reference pressure value (compensated), the backlight of the display automatically lightens and the warning icon starts flashing (see pict. no.1)

If the pressure values become 15% lower or higher than the reference pressure value (compensated), or in case of tyre internal temperature higher than 75°C (167°F), the backlight of the display automatically lightens, the warning icon starts flashing and the warning led light turns on and off.

In both cases it is not safe to ride the vehicle. It is necessary to stop and check your tyres condition. Either repair the tyre or restore the correct pressure before starting your ride again.

Before entering the set up menu make sure the central unit is completely off. Push and keep on pushing S2 and, at the same time, start the central unit by pushing S1. It is now possible to scroll the menu pages by shortly pressing the S2 button. To access a specific page of the menu shortly press S1. Once in the menu, if no button is pushed within 30 seconds, the central unit automatically returns to its normal functions.

All procedures must be completed within their maximum time frame. If this time limit is exceeded, the procedure will be terminated without being completed.

Tyre sensors learning procedure (picture no. 4)

The central unit and the tyre sensor have already been matched by the producer. If the memorization of a new sensor is necessary, follow the procedure described here below:

- Enter the "1 SL" menu. The icon of the front tyre will start flashing. If you wish to switch to the rear sensor, shortly push S2. Deflate the front tyre until the
 pressure value is lower than 0,9 bar (13 psi) and higher than 0,4 bar (6 psi).
- Press S1. The led will shortly flash and the front tyre icon will become fixed. The code of the front tyre sensor has been recognized and stored in the memory.
- The rear tyre symbol will start flashing. To exit without executing the procedure for the rear tyre press S2.
- · Now follow the same procedure described for the front tyre.
- Once the procedure has been completed the central unit automatically returns to ACTIVE mode.

Units of measure set up (picture no. 5)

The units of measure memorized during production for pressure and temperature are "BAR" and "°C". It is possible to change these into "PSI" and "°F".

- Enter the "2 Un" menu.
- The symbols of the memorized unit of measure will start flashing. Push S1 to confirm these units of measure; your choice will be confirmed by a short flashing of the
 led. To change units of measure push S2 and then to confirm your choice shortly pushing S1; the led will shortly flash.

Memorization of the pressure reference value

The pressure reference value gives a point of reference to the central unit for the calculation of the warning and alarm thresholds respectively fixed at ±7,5% and ±15%

of the memorized pressure values. This value is compensated according to the temperature: this means that the central unit automatically recalculates the warning and alarm thresholds based on the air temperature inside the tyre.

Anytime the pressure inside the tyres is intentionally modified (because of a trip with passenger or use of the bike on a race track etc.) it is necessary to update the memorized pressure reference value. To do this push anytime S2 for more than 2 seconds.

Installation of the device (picture no. 6-7-8)

- Remove the tyre and the originally equipped valve.
- · Assemble the sensor-valve unit of RTS as shown in the pictures;
- Insert the valve in the hole of the rim and tighten up to 5 Nm;
- Assemble the tyre. It is important to start assembling the tyre from the side opposite to the valve in order not to squash the sensor under the tyre edge;
- Proceed in the same way for the second sensor.

If necessary, follow the self-learning procedure indicated in picture no.4. This step must be followed only when one of the originally supplied sensors needs to be replaced. This procedure is not required when at the first mounting.



After any installation, repeat the memorization procedure for the pressure reference values.

When the sensor is fixed on the rim and the tyre needs to be demounted, always start bead loosening from the side opposite to the valve. To prevent damages to the electronic device inside the tyre during bead loosening always keep away from the valve area.

Carefully check that the diameter of the valves supplied in your RTS set is compatible with the hole diameter on your bike rim. RTS is available in different versions to adapt to the several types of valves available on motorcycles currently produced.

To clean the central unit use a humid (with water only) cleaned cloth. The central unit is completely spray proof, nevertheless do not use under pressure water to clean your motorbike if the central unit is installed.

RTS is suitable for tubeless (without inner tube) tyres only.

Verehrter Kunde,

wir danken Ihnen, dass Sie sich für RTS Bike entschieden haben.

Das von Ihnen erworbene Produkt stellt das innovativste System auf dem Gebiet der Überwachung der Motorradreifen dar: es ist komplett, genau und bietet höchste Leistungen.

Es ist das Ergebnis der kontinuierlichen Forschung, die Zadi seit Jahren auf dem Gebiet der Fahrsicherheit betreibt.

Lesen Sie bitte vor der Inbetriebnahme diese Änleitung aufmerksam durch. Sie enthält wichtige Informationen über den korrekten Einbau und Gebrauch des Systems.

Wichtige einleitende Informationen:

RTS Bike ist ein spezifisch für Zweirad-Fahrzeuge entwickeltes Echtzeit-Überwachungssystem des Reifendrucks und der Reifentemperatur. Es ist ausschließlich als Hilfsmittel zur Fahrsicherheit zu betrachten und dar/keinesfalls als Ersatz für die regelmäßige Wartung und Kontrolle der Reifen missverstanden werden. Das System hindert den Fahrer nicht daran, das Fahrzeug mit ungenügend aufgepumpten Reifen in Betrieb zu nehmen. Wor Fahrtanftit ist es daher zwingenderflich, den Reifenzaturd visuell zu überprüfen.

Die Zentraleinheit ist so anzubringen, dass der Fahrer während der Fahrt nicht abgelenkt wird. Während der Fahrt keine Einstellungen durchführen, sondern das Fahrzeug vor Eingriffen an der Zentraleinheit zum Stillstand bringen.

Beim Platzen eines Reifens oder sehr raschem Entweichen der Luft oder einer Beschädigung des Sensors, beispielsweise aufgrund eines tiefen Schlaglochs im Straßenbelag, zeigt die Zentraleinheit unter Umständen nicht den korrekten Zustand des Reifens an. Falls ein unzureichender Druck vermutet wird, an der nächsten Tankstelle anhalten und den Druck beider Reifen überprüfen.

Die Sensoren im Inneren der Reifen senden die Daten mittels Radiowellen an die Zentraleinheit. Unter besonderen Bedingungen (beispielsweise Gegenden mit hoher Intensität elektromagnetischer Störungen) kann es vorkommen, dass die Zentraleinheit vorübergehend keine Daten über Reifendruck und -temperatur erhält und daher das Fehlen der Sensoren anzeigt.

Die Steuereinheit kompensiert automatisch die durch Temperaturveränderungen im Innneren des Reifens bedingten Druckveränderungen. Die Alarmschwelle für zu niedrigen Druck ist auf -15% des gespeicherten Drucks eingestellt und wird in Abhängigkeit von der kompensierten Temperatur automatisch neu berechnet (siehe Fig. 9).

ZADI spa schließt jegliche Haftung für Schäden durch unsachgemäßen oder nicht bestimmungsgemäßen Gebrauch und/oder Montage des Systems aus. Bitte halten Sie sich gewissenhaft an die Einbau- und Bedienungshinweise.

Die mangelnde Beachtung der oben aufgeführten Vorschriften, die die Hinweise zu Einbau, Gebrauch und Wartung des Sensors betreffen, wodurch, direkt oder indirekt, Schäden an Personen, Dingen oder Tieren entstehen, entbindet die ZADI spa von jeglicher Haftung.

GEBRAUCH

Betriebsmodi:

Zum Einschalten der Zentraleinheit die Taste S1 (ON/OFF) lange (ca. 2 Sekunden) drücken. (Fig. 1)

Zur Reduzierung des Stromverbrauchs ist die Display-Beleuchtung normalerweise ausgeschaltet. Das Display ist jedoch tagsüber lesbar.

Die Hintergrundbeleuchtung kann durch kurzes Drücken einer der beiden Tasten für 10 Sekunden aktiviert werden.

Während des Betriebs, Modus ACTIVE, erkennt die Zentraleinheit automatisch, ob das Motorrad fährt oder steht und passt die Anzeige entsprechend an:

SLEEP: Motorrad steht seit mehr als 5 Minuten. In diesem Modus ist der Batterieverbrauch besonders gering. Das Display zeigt nur die Ikone des Motorrads an.

24h nach Eintritt in den SLEEP-Modus schaltet sich die Zentraleinheit automatisch aus, um die Lebensdauer der Batterie zu wahren.

Ein kurzer Druck der Taste S1 versetzt die Zentraleinheit wieder in den ACTIVE-Modus.

RUN: Motorrad fährt. Neben den oben genannten Alarmanzeigen werden auch die Momentanwerte der Reifen wie folgt wiedergegeben:

- Kontinuierliche Anzeige der Reifendrücke.
- Kontinuierliche Anzeige der Reifentemperaturen.
- · Abwechselnde Anzeige von Druck und Temperatur im 7-Sekunden-Takt.

Im RUN-Betrieb erfolgt der Wechsel von einer Art der Anzeige zur anderen durch einen kurzen Druck von S2 (MODE)

Alarm:

Die Zentraleinheit ist mit zwei Alarmanzeigen versehen:

Weicht der Druck um mehr als 7,5% vom kompensierten Referenzdruck ab, schaltet sich automatisch die Hintergrundbeleuchtung ein und auf dem Display leuchtet die Alarm-Ikone auf (siehe Fig 1).

Weicht der Druck um mehr als 15% ab oder überschreitet die Temperatur im Inneren des Reifen 75°C (167°F), schaltet sich automatisch die Hintergrundbeleuchtung ein, auf dem Display leuchtet die Alarm-Ikone auf und die Alarm-Leuchtanzeige beginnt zu blinken.

In beiden Fällen ist eine sichere Weiterfahrt nicht mehr gewährleistet. Es ist unbedingt erforderlich, anzuhalten, um den Reifenzustand zu überprüfen und vor Wiederaufnahme der Fahrt gegebenenfalls erforderliche Reparaturen durchzuführen und/oder die Reifen wieder aufzupumpen.

Menü Einstellungen der Zentraleinheit: (Fig. 3)

Um in das Menü "Einstellungen" zu gelangen, vergewissern Sie sich, dass die Zentraleinheit vollständig ausgeschaltet ist. S2 drücken und gedrückt halten und gleichzeitig mit S1 die Zentraleinheit einschalten. Anschließend kann man die verschiedenen Seiten des Menüs mit einem kurzen Druck der Taste S2 durchgehen. Um eine bestimmte Seite zu öffnen, kurz S1 drücken. Wenn nach Öffnen des Menüs innerhalb von 30 Sekunden keine Taste gedrückt wird, kehrt die Zentraleinheit automatisch zum Normalbetrieb zurück.

Jeder Vorgang hat ein Zeitlimit, um abgeschlossen zu werden. Wird dieses überschritten, verlässt man den Vorgang und dieser wird nicht abgeschlossen.

Anlernen der Reifensensoren: (Fig. 4)

Der Zentraleinheit werden während des Produktionsprozesses bereits die im selben Kit mitgelieferten Sensoren zugeordnet. Falls es aus irgendeinem Grund notwendig sein sollte, einen neuen Sensor zu speichern, kann wie folgt verfahren werden:

- Ins Menü "1 SL" gehen. Die Ikone des vorderen Reifens beginnt zu blinken. Möchte man zum hinteren Sensor übergehen, kurz S2 drücken.
- Die Luft aus dem Vorderreifen ablassen und den Druck auf unter 0,9 bar (13 psi) und über 0,4 bar (6 psi) bringen.
- S1 drücken. Das LED leuchtet kurz auf und die Ikone des Vorderreifens wird fix: der Code des vorderen Sensors wurde übernommen und abgespeichert. Die Ikone des Hinterreifens beginnt zu blinken. Um das Menü ohne Durchführung der Prozedur für den Hinterreifen zu verlassen, S2 drücken.
- Entsprechend der für den Vorderreifen beschriebenen Prozedur verfahren.
- Nach Abschluss des Vorgangs kehrt die Zentraleinheit automatisch in den Modus OFF zurück.

Einstellung Maßeinheiten: (Fig. 5)

Die Zentraleinheit wird herstellerseitig auf die Anzeige von Druck und Temperatur in "BAR" bzw. "°C" eingestellt. Es ist möglich, diese Werte auch "PSI" bzw. "°F" anzuzeigen.

- Ins Menü "2 Un" gehen.
- Die Ikonen der momentan verwendeten Maβeinheiten beginnen zu blinken. S1 drücken, um diese Maβeinheiten zu übernehmen; ein kurzes Aufblinken des LEDs bestätigt die Auswahl. Um die Maβeinheiten zu ändern, S2 drücken und die Auswahl mit einem kurzen Druck von S1 bestätigen, wobei das LED kurz aufblinkt.

Abspeichern des Referenzdrucks:

Der Referenzdruck ist der Reifendruck, auf dessen Basis die Zentraleinheit die Warn- bzw. Alarmschwelle berechnet, die auf ±7,5% bzw. ±15% des abgespeicherten Referenzdruck festgelegt sind. Dieser Wert ist bereits temperaturkompensiert, d.h die Zentraleinheit berechnet automatisch die Alarmschwelle auf Basis der Reifeninnentemperatur neu. Bei jeder Veränderung des Reifendrucks (Fahrt mit Passagier, Gebrauch auf der Piste, usw.) muss der abgespeicherte Referenzdruck entsprechend aktualisiert werden. Hierzu ist lediglich in einem beliebigen Moment die Taste S2 zu drücken und für länger als 2 Sekunden gedrückt zu halten. Das LED blinkt kurz auf, um die Speicherung zu bestätigen.

Einbau des Systems: (Fig. 6-7-8)

- Mantel und Serienventil entfernen.
- Mit dem Kit geliefertes Ventil und Sensor, wie in Fig. 6 und 7 dargestellt, zusammensetzen.
- Ventil in die vorgesehene Bohrung auf der Felge einführen und mit 5Nm anziehen.
- Den Reifen, beginnend mit der dem Ventil gegenüberliegenden Seite, wieder aufziehen, um zu vermeiden, dass der Sensor unter den Rand des Gummis gequetscht wird.
- In gleicher Weise für den zweiten Sensor verfahren.

Falls erforderlich, die in Fig. 2 dargestellte Anlern-Prozedur durchführen. Dieser Schritt ist nur bei Austausch der Sensoren des Original-Kits erforderlich. Bei Erstinstallation ist dies nicht notwendig



Nach jedem Einbau das Abspeichern des Referenzdrucks wiederholen.

Beim Abziehen des Mantels von einer Felge, auf der ein Sensor montiert ist, ist grundsätzlich auf der dem Ventil gegenüberliegenden Seite zu beginnen und ein gebührender Abstand zu demselben einzuhalten, um eine Beschädigung des elektronischen Bauteils durch Quetschen unter den Rand des Gummis zu verhindern. Sorgfältig kontrollieren, ob der Durchmesser des Ventils des Kits mit dem Durchmesser der Bohrung auf der Felge des Motorrads übereinstimmt. Das RTS-System ist in verschiedenen Versionen erhältlich, um sich allen Ventlien der Motorräder in Produktion anzupassen.

Zur Reinigung der Zentraleinheit ausschließlich ein mit Wasser angefeuchtetes weiches Tuch verwenden.

Die Zentraleinheit ist vollständig spritzwasserdicht. Bei montierter Zentraleinheit darf jedoch kein Druckwasser zur Motorradwäsche benutzt werden.

Das RTS-Kit kann nur auf mit schlauchlosen (tubeless) Reifen ausgerüsteten Felgen installiert werden.

Il prodotto deve essere installato solo da personale qualificato

ZADI spa si riserva il diritto di apportare modifiche al prodotto in qualsiasi momento si rendessero necessarie, senza l'obbligo di darne comunicazione.

Product must be installed only by qualified personnel.

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Zadi spa behält sich das Recht vor, zu jedem beliebigen Zeitpunkt eventuell erforderliche Änderungen am Produkt vorzunehmen, ohne verpflichtet zu sein, dies bekanntzugeben.



Icona pneumatico anteriore - Front tyre icon - Ikone Vorderreifen

Icona pneumatico posteriore - Rear tyre icon - Ikone Hinterreifen

Bassa tensione batteria unità centrale - Central unit battery low - Niedrige Batteriespannung Zentraleinheit

Unità di misura - Units of measure - Maßeinheit

Pressione e temperatura ruota posteriore - Rear wheel pressure and temperature - Druck und Temperatur Hinterreifen Icona di allarme - Alarm icon - Alarm-Ikone

Pressione e temperatura ruota anteriore - Front wheel pressure and temperature - Druck und Temperatur Vorderreifen Indicatore luminoso allarme - Luminous alarm indicator - Alarm-Leuchtanzeige

GB

Dear customer

thank you for choosing RTS Bike.

The product you purchased is the most innovative in the field of motorcycle tyre monitoring: it complete, accurate and offers very high performance.

It is the result of ZADI continuous research and to improve riding safety.

Before installing and using RTS Bike, you should carefully read this manual. It contains important pieces of information for the correct installation and use of the device.



FCC ID: VFZZADIRTS01 ZADI S.P.A. RTS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)

this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

Caution: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Important preliminary information

RTS Bike is a real time tyre pressure and temperature monitoring system, specifically developed for two-wheels vehicles. You must consider it a driver's auxiliary device and by no means a substitute for the ordinary check and maintenance of the tyres.

RTS Bike does not prevent the rider from starting the vehicle if the tyres are flat. The device begins measuring temperature and pressure when wheels turn. Therefore, before starting the vehicle you must visually check the pressure status of the tyres.

The central unit must be installed in such a way as to prevent it from distracting the person riding the vehicle. Do not make any set-up while riding and stop your vehicle before operating on the central unit.

In case of tyre burst, tyre very fast deflation or sensor damages due for example to a deep road bump, the central unit could eventually not indicate the correct status of the tyre. Should you suspect an incorrect pressure figure, stop at the nearest service station to check the pressure of all tyres.

The sensors inside the tyres transmit data to the central unit by means of radio waves. In particular conditions (for examples areas with high density of electromagnetic interference) the central unit could temporarily not receive the pressure data and consequently indicate the absence of the sensors.

The central unit automatically compensate the changes of pressure due to temperature variations inside the tyre. The warning threshold value for low pressure is set at -15% of the memorized pressure value and is automatically recalculated based on the compensated temperature (see picture no.9)

ZADI declines any responsibility and shall not be liable for any incorrect or not foreseen installation or use of the device. You must carefully follow the installation and use instructions of this manual

ZADI declines any responsibility and shall not be liable for any direct or indirect damage caused to persons, objects or animals by the missing observance of any of the instructions of this manual

USE:

How it works

To start the central unit push for at least 3 sec. the S1 (On/Off) button (picture no.1).

In order reduce energy consumption the backlight is normally off, the display will in any case be visible in daylight. The backlight may be activated for 10 seconds by shortly pushing one of the two buttons (S1 or S2).

If the central unit has been started, and is therefore in ACTIVE mode, it automatically detects if the motorcycle is moving or not and consequently changes the visualization in:

SLEEP: when the motorcycle has not moved for more than 5 minutes. In this mode the battery consumption is considerably reduced. The central unit only shows the motorcycle icon. After 24 hours of SLEEP mode the central unit will automatically turn off to preserve battery life. To restore the ACTIVE mode shortly press S1 RUN: the motorcycle moves. The central unit, besides warning the rider as described above, shows the instant parameters in the following options:

- · Continuous visualization of the tyres pressure
 - Continuous visualization of the tyres temperature
- Alternating visualization of pressure and temperature every 7 seconds.
- In RUN mode, to switch from a visualization option to the other, shortly push the S2 (MODE) button.

In order to preserve the battery life, when the motorcycle remains unused for long periods of time it is advisable to completely turn the central unit off. To do this keep the S1 button pushed until the central unit is off. In this case the central unit is completely off and will not send any warning indication.

The central unit is equipped with two types of visual alarms:

If the pressure values become at least 7,5% lower or higher than the reference pressure value (compensated), the backlight of the display automatically lightens and the warning icon starts flashing (see pict. no.1)

If the pressure values become 15% lower or higher than the reference pressure value (compensated), or in case of tyre internal pressure higher than 75°C (167°F), the backlight of the display automatically lightens, the warning icon starts flashing and the warning led light turns on and off.

In both cases it is not safe to ride the vehicle. It is necessary to stop and check your tyres condition. Either repair the tyre or restore the correct pressure before starting your ride again.

Central unit set-up menu (picture no. 3)

Before entering the set up menu make sure the central unit is completely off. Push and keep on pushing S2 and, at the same time, start the central unit by pushing S1. It is now possible to scroll the menu pages by shortly pressing the S2 button. To access a specific page of the menu shortly press S1. Once in the menu, if no button is pushed within 30 seconds, the central unit automatically returns to its normal functions.

All procedures must be completed within their maximum time frame. If this time limit is exceeded, the procedure will be terminated without being completed.

Tyre sensors learning procedure (picture no. 4)

The central unit and the tyre sensor have already been matched by the producer. If the memorization of a new sensor is necessary, follow the procedure described here below:

- Enter the "1 SL" menu. The icon of the front tyre will start flashing. If you wish to switch to the rear sensor, shortly push S2. Deflate the front tyre until the pressure value is lower than 0,9 bar (13 psi) and higher than 0,4 bar (6 psi).
- Press S1. The led will shortly flash and the front tyre icon will become fixed. The code of the front tyre sensor has been recognized and stored in the memory.
- The rear tyre symbol will start flashing. To exit without executing the procedure for the rear tyre press S2.
- Now follow the same procedure described for the front tyre.
- Once the procedure has been completed the central unit automatically returns to ACTIVE mode.

Units of measure set up (picture no. 5)

The units of measure memorized during production for pressure and temperature are "BAR" and "°C". It is possible to change these into "PSI" and "°F".

Enter the "2 Un" menu.

• The symbols of the memorized unit of measure will start flashing. Push S1 to confirm these units of measure; your choice will be confirmed by a short flashing of the led. To change units of measure push S2 and then to confirm your choice by shortly pushing S1; the led will shortly flash.

Memorization of the pressure reference value

The pressure reference value gives a point of reference to the central unit to calculate the warning and alarm thresholds respectively fixed at ±7,5% and ±15% of the memorized pressure values. This value is compensated according to the temperature: this means that the central unit automatically recalculates the warning and alarm thresholds based on the air temperature inside the tyre.

Anytime the pressure inside the tyres is intentionally modified (because of a trip with passenger or use of the bike on a race track etc.) it is necessary to update the memorized pressure reference value. To do this push anytime S2 for more than 2 seconds.

Installation of the device (picture no. 6-7-8)

- · Remove the tyre and the originally equipped valve.
- · Assemble the sensor-valve unit of RTS as shown in the pictures;
- Insert the valve in the hole of the rim and tighten up to 5 Nm;
- Assemble the tyre. It is important to start assembling the tyre from the side opposite to the valve in order not to squash the sensor under the tyre edge;
- Proceed in the same way for the second sensor.

If necessary, follow the self-learning procedure indicated in picture no.4. This step must be followed only when one of the originally supplied sensors needs to be replaced. This procedure is not required when at the first mounting.

After any installation, repeat the memorization procedure for the pressure reference values (page n.)

When the sensor is fixed on the rim and the tyre needs to be demounted, always start bead loosening from the side opposite to the valve. To prevent damages to the electronic device inside the tyre during bead loosening always keep away from the valve area.

Carefully check that the diameter of the valves supplied in your RTS set is compatible with the hole diameter on your bike rim. RTS is available in different versions to adapt to the several types of valves available on motorcycles currently produced.

To clean the central unit use a humid (with water only) cleaned cloth. The central unit is completely spray proof, nevertheless do not use under pressure water to clean your motorbike if the central unit is installed.

RTS is suitable for tubeless (without inner tube) tyres only.

Retrocopertina

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