POWERS YOUR PERFORMANCE

ENGLISH

PRO SCIO

X-1.6 & W-2.1

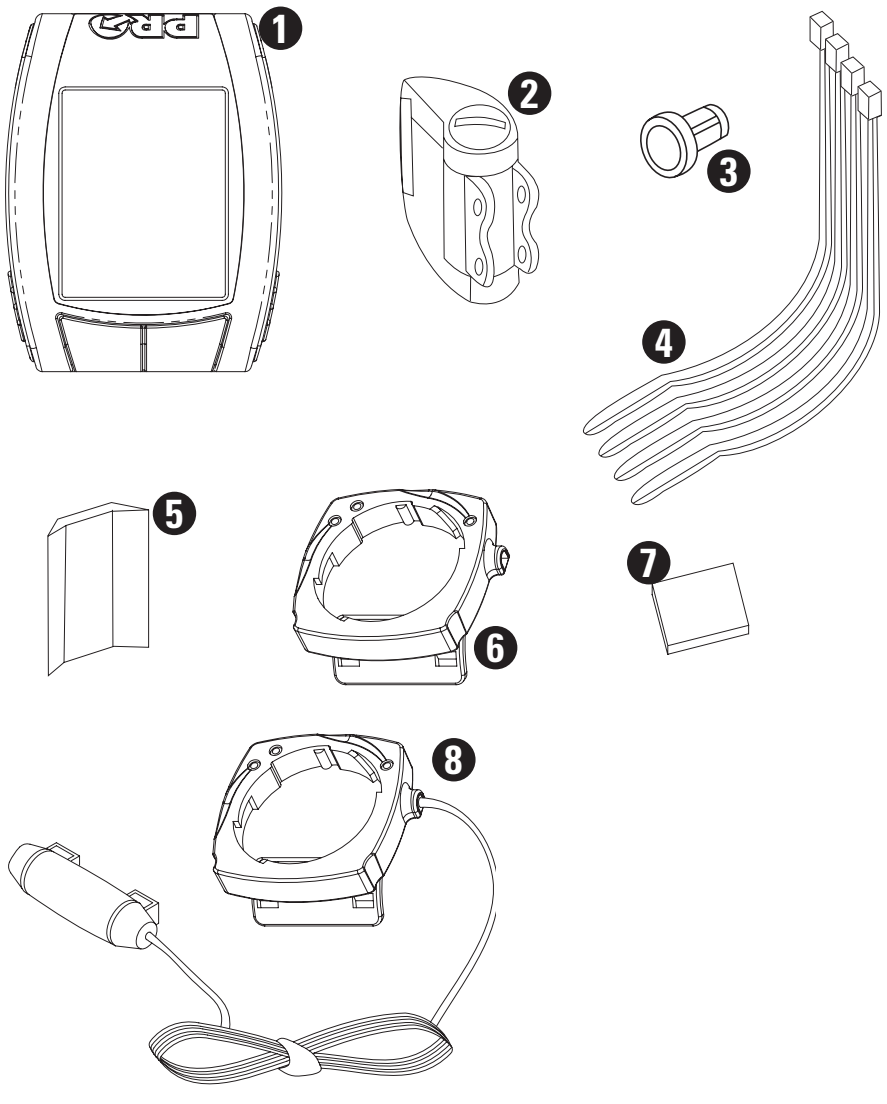
TABLE OF CONTENTS

TABLE OF CONTENTS

WARNINGS & CAUTIONS

- **WARNING:** Failure to pay attention to the road, trail, traffic or your surroundings could result in an accident, with risk of serious injury, paralysis or death. You must focus on riding, not your computer. Learn computer operations, and do all possible computer operations when not riding. For any operations you choose to perform while riding, choose a time and place where this distraction has less risk.
- **CAUTION:** Mount the Cyclecomputer according to the directions in this instruction manual.
- **CAUTION:** Avoid direct impact to the Cyclecomputer unit.
- **CAUTION:** Do not submerge the Cyclecomputer unit.
- **CAUTION:** Avoid using the Cyclecomputer unit in or near strong electromagnetic fields such as high-voltage power lines or other transmitters.
- **CAUTION:** Do not disassemble the unit.
- **CAUTION:** Make sure the magnet and the transmitter are well aligned and check them regularly.
- **CAUTION:** PRO Scio Cyclecomputers are intended for use on bicycles only and should not be used on any motorized vehicle.
- **CAUTION:** Change the battery prior to failure to avoid data loss.
- **CAUTION:** Clean the unit with a mild detergent and a soft dry cloth. Never use any kind of solvent or alcohol.

COMPONENTS OF THE CYCLECOMPUTER



1 **CYCLO COMPUTER UNIT**

2 **WIRELESS FORK TRANSMITTER**
(SCIO W-2.1 ONLY)

3 **WHEEL MAGNET**

4 **ZIP-TIES**

5 **WIRELESS FORK TRANSMITTER MOUNTING PAD**
(SCIO W-2.1 ONLY)

6 **WIRELESS MOUNTING BRACKET**
(SCIO W-2.1 ONLY)

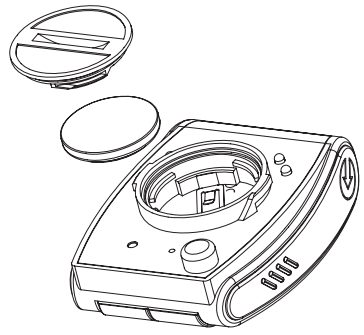
7 **MOUNTING BRACKET RUBBER PAD**

8 **WIRED TRANSMITTER/ MOUNTING BRACKET**
(SCIO X-1.6 ONLY)

REPLACING THE BATTERY

PRO Scio Cyclecomputers are powered by a CR2032 3v Lithium Battery. Under normal conditions, this battery should last approximately one year.

REPLACING THE COMPUTER BATTERY



1. Using a coin, turn the battery door counter clockwise until the door comes free.
2. Take care not to damage the O-ring seal for the battery compartment and carefully remove the old battery.
3. Place a new battery in the battery compartment with the positive (+) side toward the battery door. Be extremely careful not to bend the battery contact when inserting a new battery.
4. Place the battery door over the opening and tighten it down by using a coin and turning in a clockwise direction.
5. If the O-ring has been damaged, replace it before reinstalling the battery door.

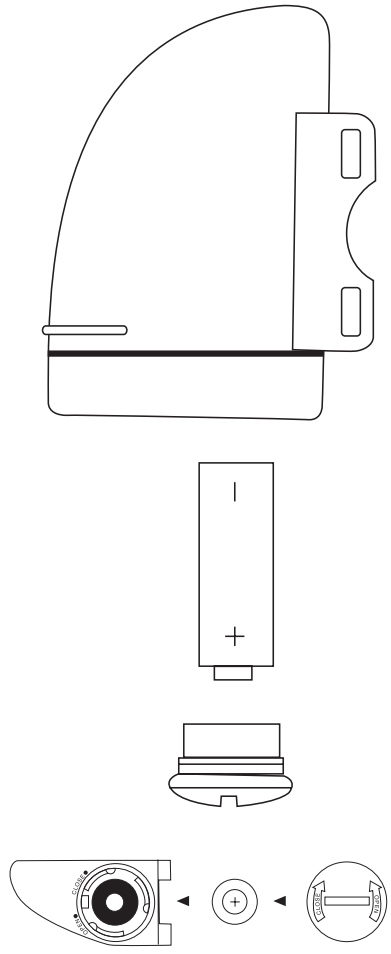
CAUTION: Extreme care should be taken when replacing the battery to ensure the unit remains fully water resistant. Failure to properly replace the battery and correctly seal the unit may cause the unit to become damaged and may void the warranty.

CHANGING THE BATTERY IN THE WIRELESS SPEED TRANSMITTER

The Wireless Speed Transmitter uses a 23A 12v Alkaline battery. Under normal conditions, this battery should last approximately one year.

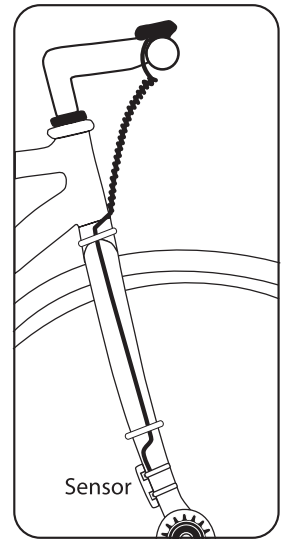
1. Using a coin, turn the battery door counter clockwise until the door comes free.
2. Take care not to damage the O-ring seal for the battery compartment and carefully remove the old battery.
3. Place a new battery in the transmitter positive (+) side toward the battery door.
4. Place the battery door over the opening and tighten it down by using a coin and turning in a clockwise direction.
5. If the O-ring has been damaged, replace it before reinstalling the battery door.

NOTE: Extreme care should be taken when replacing the battery to ensure the unit remains fully water resistant. Failure to properly replace the battery and correctly seal the unit may cause the unit to become damaged and may void the warranty.



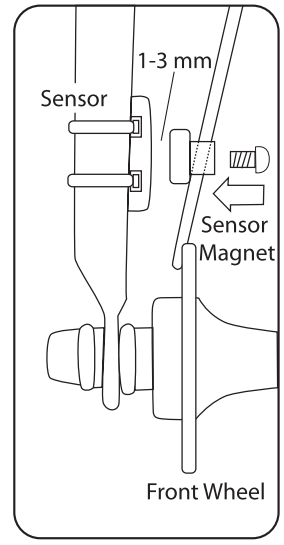
INSTALLING THE WIRED CYCLECOMPUTER ON YOUR BIKE - PRO SCIO X-1.6

INSTALLING WIRED FRONT WHEEL SPEED SENSOR AND BRACKET



The PRO Scio X-1.6 uses a single wired sensor attached to the front fork.

1. Attach the front wheel sensor to either fork blade using the zip-ties provided. Snug up the zip-ties but do not fully tighten them.
2. Attach the spoke magnet to a spoke on the same side of the wheel as the sensor. Tighten the attachment screw just enough to hold the magnet in place but loose enough so that it is still movable.
3. Adjust the position of the sensor and magnet so they are in proper alignment as shown in the drawing and tighten the zip-ties and magnet.



NOTE: The magnet should pass 1-3mm away from the sensor. The closer you can get the magnet to the sensor the better.

INSTALLING THE WIRED CYCLECOMPUTER ON YOUR BIKE - PRO SCIO X-1.6

INSTALLING WIRED FRONT WHEEL SPEED SENSOR AND BRACKET

(continued)

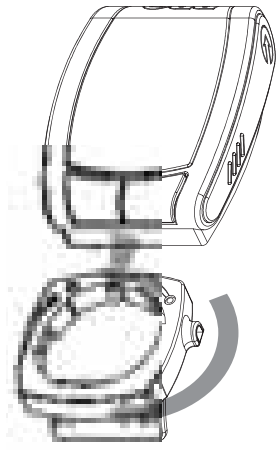
4. Route the remaining wire and bracket up the fork securing it with tape. Excess wire should be wrapped around the brake cable housing until there is just enough slack remaining to allow the bracket to be attached to the handlebars. Attach the bracket to the handlebars and tighten the zip-ties.

CAUTION: When installing the system on a bicycle with front suspension, be sure to leave enough slack for the action of the fork.

MOUNTING THE HANDLEBAR/STEM BRACKET

1. Place the Cyclecomputer unit into the mounting bracket and turn clockwise until the unit snaps into place.

NOTE: When mounting the unit on the stem, you must first remove the 4 screws on the back of the mounting bracket and rotate it 90 degees. Replace the screws - do not overtighten. The unit is now properly aligned for mounting on the stem.

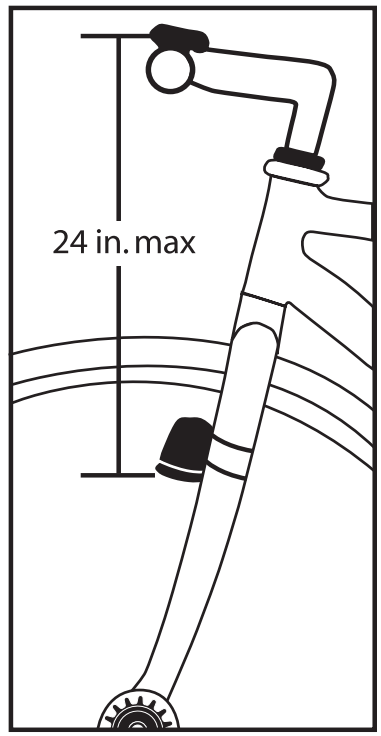


2. Place the mounting brakcet in the desired position on handle bars or stem.
3. Thread the zip-ties provided through the holes on one side of the mounting sleeve and around the handlebar or stem. Once the unit is positioned correctly, secure the zip-ties and trim off the excess ends.

INSTALLING THE WIRELESS CYCLECOMPUTER ON YOUR BIKE - PRO SCIO W-2.1

INSTALLING THE WIRELESS FORK TRANSMITTER

The PRO Scio W-2.1 receives speed and distance from a wireless transmitter mounted to the front fork.



1. Attach the wireless front wheel sensor and rubber mounting pad to the front of the left fork blade using the zip-ties provided so the battery cap is pointing downward. Snug up the zip-ties but do not fully tighten them. The sensor should be mounted as high on the fork blade as possible. The range of the transmitter is approximately 18in (46cm). Mounting it high on the fork will assure good signal reception. Other mounting locations may work, but we feel this is the best location for most applications.
2. Attach the spoke magnet to a spoke on the same side of the wheel as the sensor. Tighten the attachment screw just enough to hold the magnet in place but loose enough so that it is still movable.

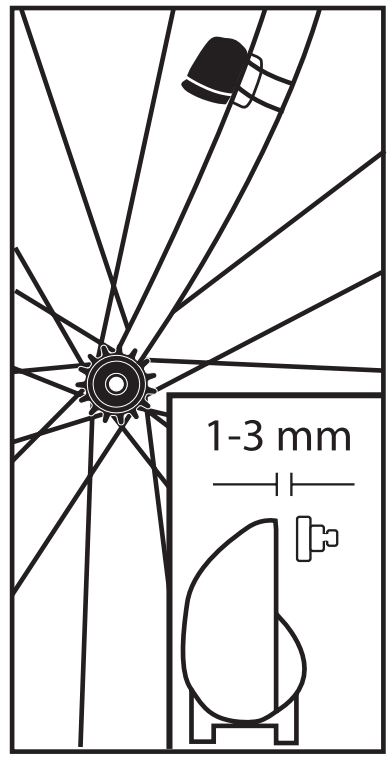
INSTALLING THE WIRELESS CYCLECOMPUTER ON YOUR BIKE - PRO SCIO W-2.1

INSTALLING THE WIRELESS FORK TRANSMITTER (CONTINUED)

3. Adjust the position of the sensor and magnet so they are in proper alignment as shown. The magnet should pass by the sensor adjacent to the molded plastic line at a distance of 1-3mm.

4. Once everything is in alignment, fully tighten the spoke magnet in place and tighten the zip-ties holding the sensor to the fork.

continued next page



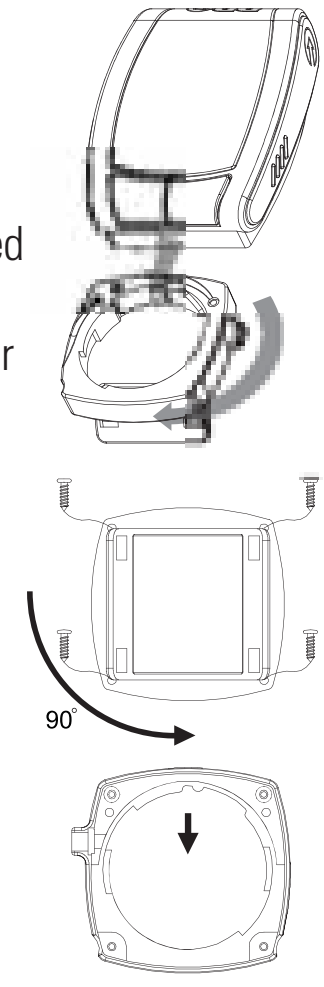
INSTALLING THE WIRELESS CYCLECOMPUTER ON YOUR BIKE

MOUNTING THE HANDLEBAR/STEM BRACKET

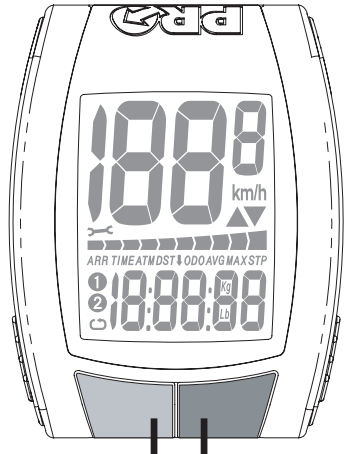
1. Place the Cyclecomputer unit into the mounting bracket and turn clockwise until the unit snaps into place.

NOTE: When mounting the unit on the stem, you must first remove the 4 screws on the back of the mounting bracket and rotate it 90 degees. Replace the screws - do not overtighten. The unit is now properly aligned for mounting on the stem.

2. Place the mounting bracet in the desired position on handle bars or stem.
3. Thread the zip-ties provided through the holes on one side of the mounting sleeve and around the handlebar or stem. Once the unit is positioned correctly, secure the zip-ties and trim off the excess ends.



KEYS & THEIR FUNCTIONS



MODE KEY

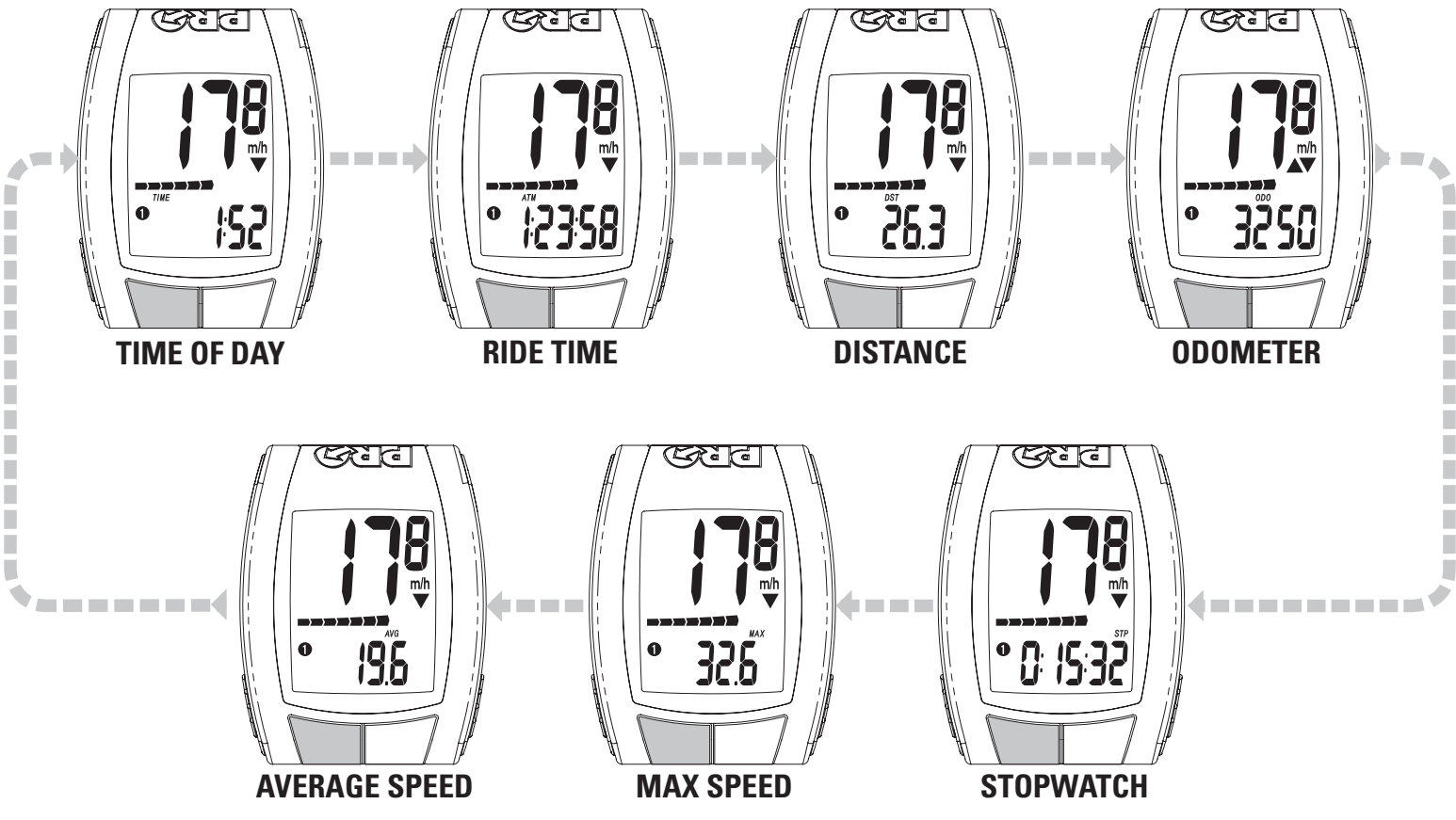
- Advances through main operating modes
- Press & Hold: Selects BIKE 1 or BIKE 2 in Average Speed mode
- Sets variable being adjusted in the Programming Sequence
- Deactivates SCAN mode

SET KEY

- Adjusts variable being set in the Programming Sequence
- Selects Distance UP or DOWN in Distance Mode
- Press & Hold: Actives SCAN mode during operation
- Deactivates SCAN mode
- Stops/Starts Stopwatch

MAIN OPERATING MODES

The PRO Scio X-1.6 and PRO Scio X-2.1 have 7 main operating modes. Scroll through modes by **Pressing** the **Mode** key.



MAIN OPERATING MODES

SCAN MODE

The PRO Scio X-1.6 and PRO Scio X-2.1 can be programmed to automatically scan though all operating modes in 2-second intervals. To activate Scan mode, **Press & Hold** the **Set** key for 2 seconds in any operating mode. To deactivate Scan mode, **Press** the **Set or Mode** key.

MEASURING WHEEL SIZE

DETERMINING YOUR WHEEL SIZE

PRO Scio Computers use the rolling circumference of your wheel and tire combination to determine speed and distance. The more accurate this setting, the more accurate your ride information will be. However, variations of less than 30mm from the actual circumference will have very little impact on the overall accuracy of the unit.

If your wheel/tire size is not one of the sizes in the accompanying chart, or if you desire absolute accuracy, you may enter an exact wheel circumference into the system. Use the method on the following page for measuring the circumference of your wheel/tire combination.

WHEEL SIZE	CIRCUMFERENCE
26 X 1.0	1973
26 X 1.5	2026
26 X 1.6	2051
26 X 2	2114
700 X 20C	2114
700 X 23C	2133

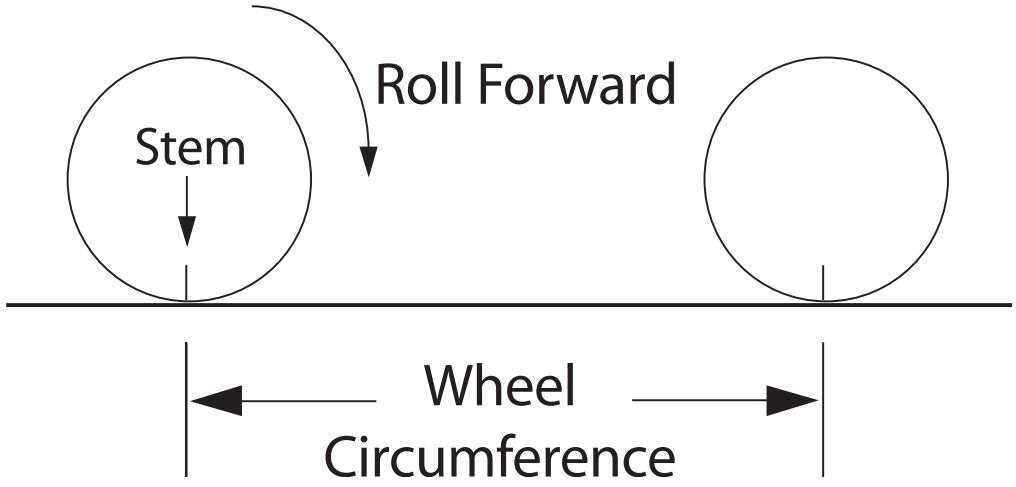
WHEEL SIZE	CIRCUMFERENCE
700 X 25C	2146
700 X 28C	2149
700 X 32C	2174
700 X 35C	2205
700 X 40C	2224

MEASURING WHEEL SIZE

MEASURING WHEEL SIZE USING ROLLOUT METHOD

The roll-out method is the most accurate method for determining the circumference of your wheel/tire combination.

1. On a flat open surface make a mark on your tire and the floor exactly where they meet.
2. Roll your bike forward one full revolution of the front wheel and mark the point on the floor where the revolution is complete. For maximum accuracy be sitting on the bike while someone rolls you and the bike forward.
3. Measure the distance from the first mark to the second in millimeters and enter the resulting number into your computer.



PROGRAMMING THE CYCLECOMPUTER

SELECTING MILES OR KILOMETERS, SETTING WHEEL SIZE AND ODMETER

The main Programming Sequence calibrates the computers measurments for both Bikes 1 and 2. In order to assure accuracy of the unit, all fields of information must be programmed.

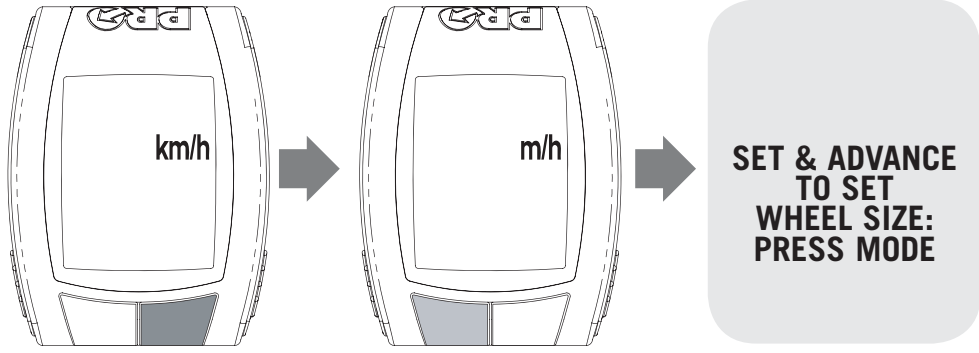
1. In Odometer Mode, Press & Hold the Mode key to enter the Setting Sequence.

Note: you must enter all fields of information to return to Operating mode.

SELECTING MILES OR KILOMETERS

2. Select Miles or Kilometers by Pressing the Set key.

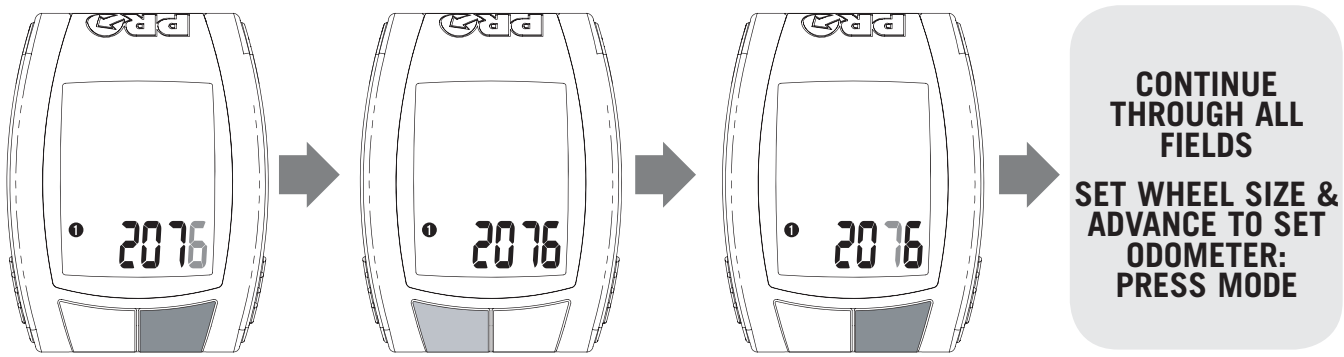
3. Set Miles or Kilometers by Pressing the Mode key. The computer will automatically advance to set Wheel Size.



PROGRAMMING THE CYCLECOMPUTER

SETTING WHEEL SIZE

4. Adjust wheel circumference of Bike 1 starting with right through left digits (digit being adjust will blink).
5. Adjust blinking digit by pressing the Set key.
6. Set digit and advance to next by Pressing the Mode key.
7. Once all fields have been adjusted, Press the Mode key to advance to adjust wheel circumference for Bike 2. Repeat Steps 4 through 6.
8. Once Bike 2 wheel circumference has been set, press the mode key to advance to set Odometer.



ADJUST: PRESS SET **SET & ADVANCE: PRESS MODE** **ADJUST: PRESS SET**

PROGRAMMING THE CYCLECOMPUTER

SETTING ODOMETER

PRO Scio Cyclecomputers allow you to manually program your odometer. This is useful for preserving distance totals in the event of battery failure or if you need to reset the computer for any reason.

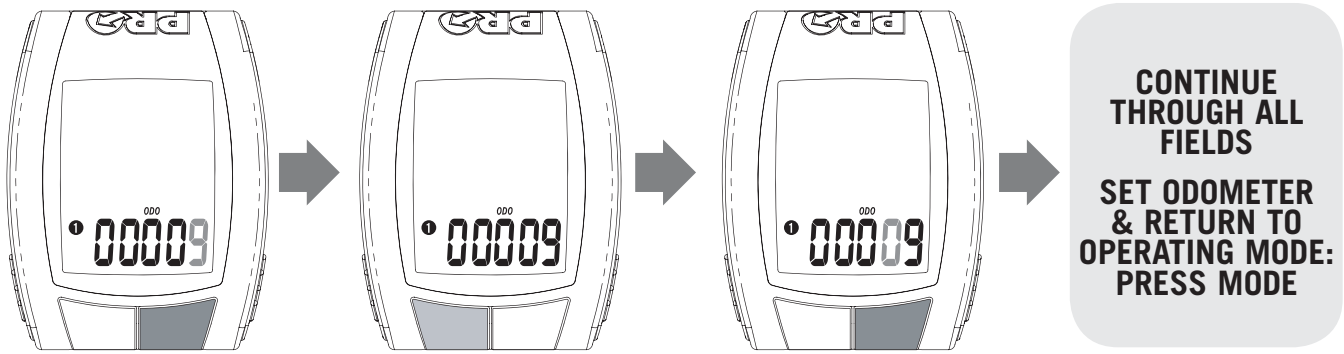
9. Set Odometer of Bike 1 starting with right through left digits (digit being adjust will blink).

10. Adjust blinking digit by pressing the Set key.

11. Set digit and advance to next by Pressing the Mode key.

12. Once all fields have been adjusted, Press the Mode key to advance to Odometer for Bike 2. Repeat Steps 9 through 11.

13. Once Bike 2 Odometer has been set, Press the Mode key to return to Operating mode.

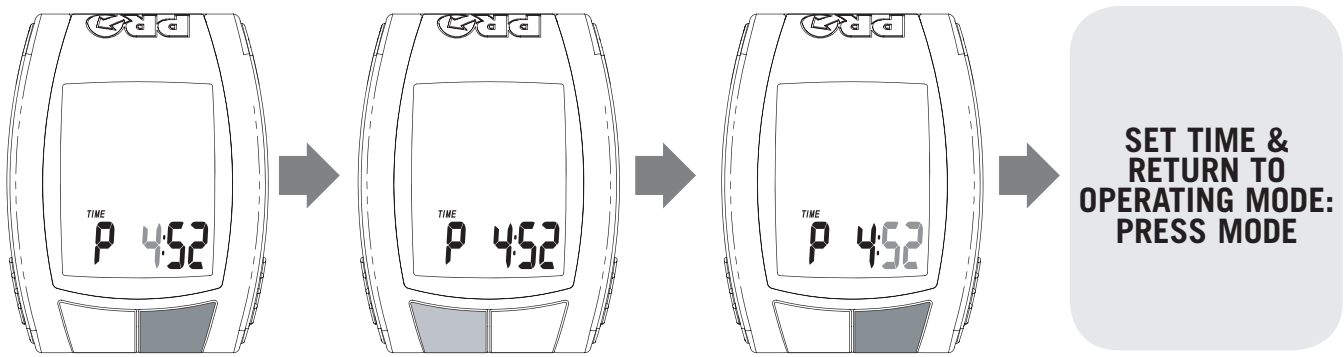


PROGRAMMING THE CYCLECOMPUTER

SETTING TIME OF DAY

PRO Scio Cyclecomputers display Time of Day in 1-minute resolution in 12 or 24-hour formats.

1. In Time Mode, Press & Hold the Mode key to enter the Programming Sequence.
2. Adjust 12 or 24-hour format by Pressing the Set key.
3. Set format and advance to set time by Pressing the Mode key.
4. Adjust Hour by Pressing the Set key.
5. Set Hour and advance to set minutes by Pressing the Mode key.
6. Adjust minutes by Pressing the Set key.
7. Press Mode key to set minutes and return to Operating mode.

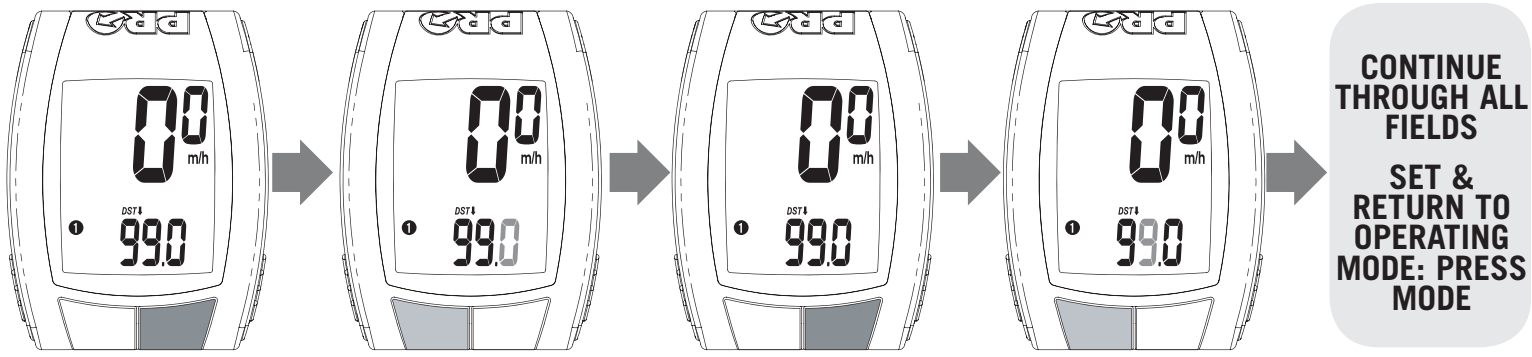


PROGRAMMING THE CYCLECOMPUTER

SETTING DISTANCE COUNTDOWN

PRO Scio Cyclecomputers allow you to program a specific distance in 1/10-mile/kilometer resolution and count down to your specified destination.

1. In Distance mode, Press the Set key to toggle between Distance Up and Down. The Distance Countdown icon (⬇) will appear in the center line of the display.
2. In Distance Down mode, Press & Hold the Mode key to enter the Programming Sequence.
3. Adjust distance starting with right through left digits (digit being adjust will blink) by pressing the Set key.
4. Set digit and advance to next by Pressing the Mode key.
5. Once all fields have been adjusted, Press the Mode key to return to Operating mode.



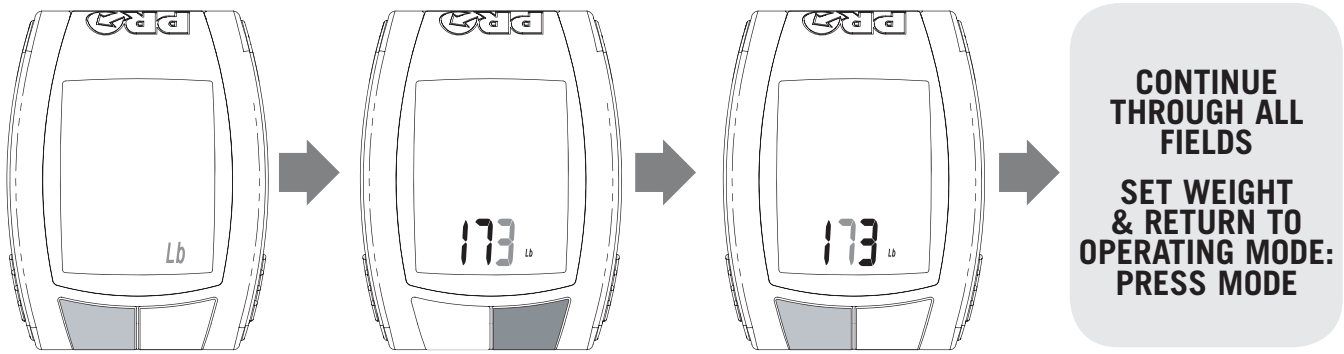
PROGRAMMING THE CYCLECOMPUTER

SETTING CALORIES INFORMATION (STOPWATCH MODE)

PRO Scio Cyclecomputers estimate calories consumed during your ride. To calculate Calories you must enter your weight.

1. In Stopwatch Mode, Press & Hold the Mode key. to enter the Programming Sequence.
2. Adjust weight units (pounds or kilograms) by Pressing the Set key.
3. Select pounds or kilograms and advance to set weight by Pressing the Mode key.
4. Adjust weight starting with right through left digits (digit being adjust will blink) by pressing the Set key.
5. Set digit and advance to next by Pressing the Mode key.
6. Once all fields have been adjusted, Press the Mode key to return to Operating mode.

NOTE: Stopwatch must be activated to calculate calories consumed.

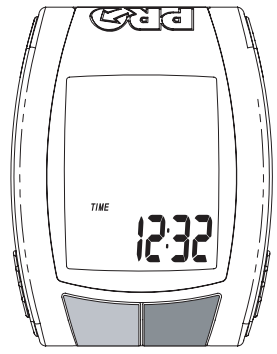


SELECT UNITS: PRESS MODE | **ADJUST WEIGHT: PRESS SET** | **SET & ADVANCE: PRESS MODE**

OPERATING THE CYCLECOMPUTER

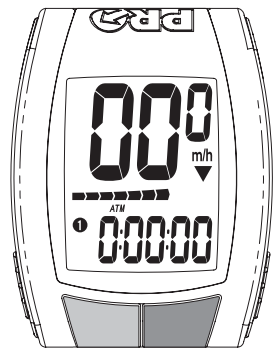
SLEEP MODE

To conserve battery life, when the Cyclecomputer does not receive a signal for a period of time, the unit goes into SLEEP mode. The display reads Time of Day in the lower display line. All other display fields are blank. Press any key to wake the unit and resume Operating mode.



RESETTING THE UNIT

To clear all ride information, Press & Hold both the Mode and Set Keys for 2 seconds in Ride Time (ATM) mode.

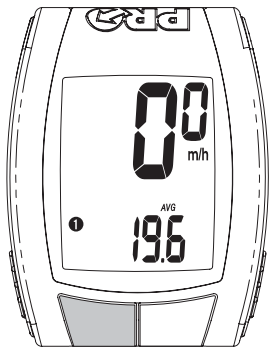


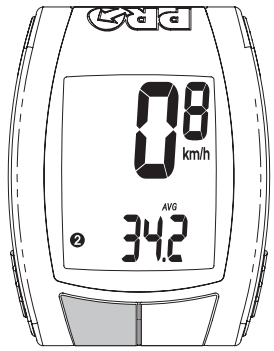
OPERATING THE CYCLECOMPUTER

SELECT BIKE 1 OR BIKE 2

PRO Scio Cyclecomputers allow you to program two separate bike specifications. Most functions are totally independent. For example, you can program Bike One for Speed and Distance in Miles and Bike Two for Speed and Distance in Kilometers.

In Average Speed mode, Press & Hold the Mode key to select between Bike 1 and Bike 2.



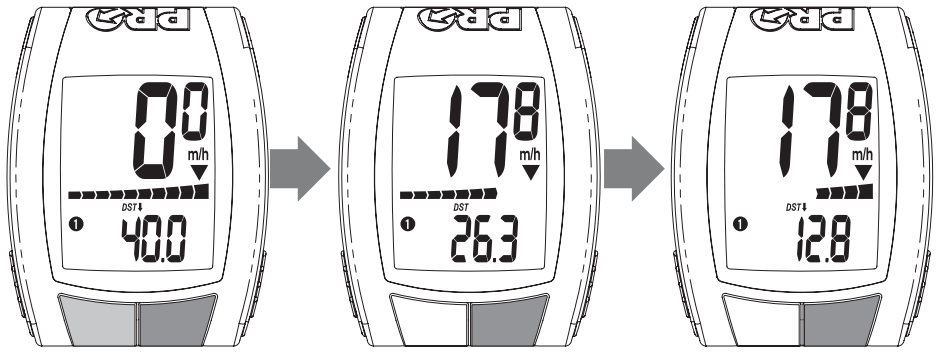


OPERATING THE CYCLECOMPUTER

DISTANCE TRAVELED / DISTANCE COUNTDOWN

PRO Scio Cyclecomputers allow you to view both distance traveled and distance remaining to your destination.

1. Once a Distance has been programmed, activate Distance Countdown by Pressing both the Mode and Set keys. The center line display segments (▬▬▬▬▬▬▬) will display the relative distance remaining to your destination by varying display from right to left.
2. Toggle between Distance traveled and Distance Countdown by Pressing the Set key in Distance (DST) mode.



START DST DN: PRESS MODE & SET

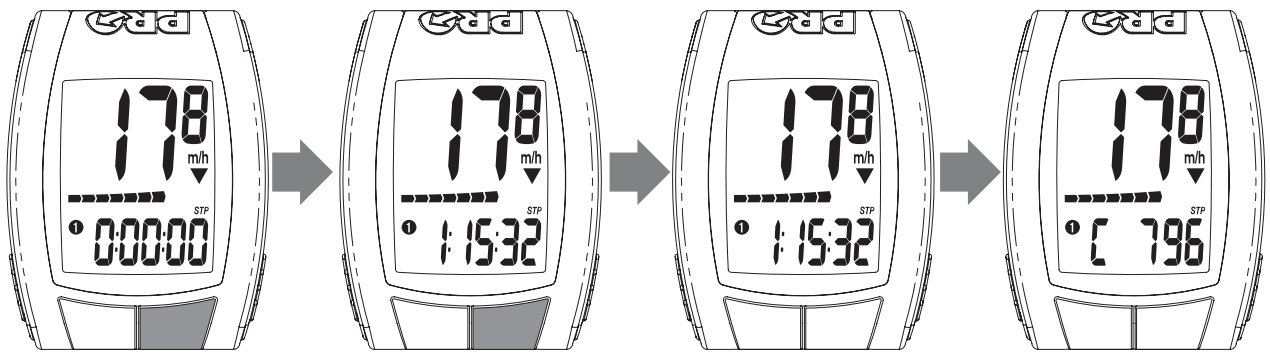
VIEW DST UP/DN: PRESS SET

OPERATING THE CYCLECOMPUTER

OPERATING THE STOPWATCH

PRO Scio Cyclecomputers are equipped with a 20-hour Stopwatch that operates independantly of Ride Time (ATM).

1. In Stopwatch Mode, Press the Set key to begin timing.
2. Press Set to stop timing. When Stopwatch is stopped, the display will cycle between Elapsed Time and Calories Consumed in 2-second intervals.



START TIMING: PRESS SET | **STOP TIMING: PRESS SET** | **ELAPSED TIME DISPLAY** | **CALORIES CONSUMED DISPLAY**

OPERATING THE CYCLECOMPUTER

PRO SCIO SERIES DISPLAY FIELDS

SPEED

SERVICE REMINDER

BIKE 1 & 2

SCAN MODE INDICATOR
See page 15

LOWER DISPLAY LINE

Displays information specific to current operating mode, including Ride Time and Stopwatch, Distance, Time of Day, Average Speed and Max Speed

UNITS: Miles or Kilometers

AVE. SPEED COMPARISON

SPEED/DISTANCE BAR
See page 26

FUNCTION LINE

Indicates current operating mode

TROUBLESHOOTING

- **DECREASED CONTRAST IN DISPLAY SCREEN:** Battery is weak and must be replaced.
- **DISPLAY IS BLANK:** Change the battery or reset the computer.
- **DISPLAY SHOWS PARTIAL DIGITS:** Reset the computer.
- **SPEED/DISTANCE NOT RECORDING:** Check sensor/magnet alignment. Make sure that the sensor is no more than 3mm from the magnet.
- **ENTIRE SCREEN IS DARK:** Unit may have been over exposed to direct sunlight. Move the bike to the shade. The data will be OK.
- **NO OR ERATIC SPEED DISPLAY: 1)** Distance between magnet and transmitter is too great (3 mm maximum). **2)** Interference from electro magnetic field. **3)** Sensor wires may be fully or partially severed.

FUNCTIONAL SPECIFICATIONS & RANGES

TIME OF DAY
- 24 hours with one-minute resolution
- Functional in either 12 or 24 hour formats

ODOMETER
- 9999 miles or kilometers
- 1 mile or 1 kilometer resolution

TRIP
- 9999.9 miles or kilometers
- .1 mile or .1 kilometer resolution

WHEEL SIZE
- Wheel circumference measured in millimeters
- 0 - 2999

SPEED
- 0-199.9 MPH or KPH
- 0.1 MPH or KPH resolution

STOPWATCH
- 19h 59m 59s
- 1-second resolution

WARRANTY & REPAIR

ALL PRO CYCLOCOMPUTERS ARE SUBJECT TO A LIMITED WARRANTY OF 2 YEARS.

PRO hereby warrants that all of its products are subject to a 2-year Warranty.
This Warranty can only be applied to by the original purchaser of the product, and is restricted to defects in material and/or workmanship (not applicable in case of abuse, neglect or normal wear and tear!). PRO will only replace or repair those products that fully comply with the above stated rules.

For more information or specific details regarding claims against this warranty please contact your local dealer or search for your local PRO dealer or distributor in the Dealer Locator on the official PRO website (http://www.pro-bikegear.com).

www.pro-bikegear.com

Industrieweg 24
8071 CT Nunspeet
The Netherlands

	Item	EN	NL	ES	GE	IT	PO	ES	RUS	JP	DIGI / PACE SERIES							APEX SERIES					
											XS	XB	X10	W1	W12	WR	Limit	X-1.6	W-2.1	W-2.3 RPM	W-3.3 Alti	W-4.0 Alti HR	Limit
	1	Speed	Snelheid	Velocidad	Geschwindigkeit	Velocità	Velocidade	Velocidad	Скорость	スピード	Y	Y	Y	Y	Y	Y	0.0 – 199.9 Km/h or 120.0 M/leh +/- 1%	WIRED	ANALOG W/L	ANALOG W/L	ANALOG W/L	ANALOG W/L	199.9Km/h or m/h
	2	No. of keys	Aantal toetsen	Número de funciones	Zahl der Tasten	N.RO TASTI	N.RO TASTI	N° de teclas	N° de teclas	ファンクション数	1	1	1	1	1	2		2	2	4	4	4	4	
	3	Scan	Scan	Scanner	Scan	Scan	Scan	Scan	Скан	スキャン	Y	Y		Y				Y	Y					
	4	Auto Start	Auto Start	Inicio en marche auto	Auto-Start	Auto Start	Auto Arranque	Inicio automático	Авто запуск	オートスタート	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	Y	
	5	Max. Speed	Max. Snelheid	Velocidad Max.	Höchstgeschwindigkeit	Vel. Max	Velocidade Máx.	Velocidad Máx.	Макс.скорость	最高速度		Y		Y	Y	Y	0.0 – 199.9 Km/h or 120.0 M/leh +/- 1%	Y	Y	Y	Y	Y	199.9
	6	Speed bar (% of max. speed)	Snelheidsbalk (% van max. snelheid)	Velocidad instantánea (% de la velocidad	Geschwindigkeits-Balkenanzeige (% der Maximalgeschwindigkeit)	Barra velocità (% vel. Max)	Barra de velocidade (% de velocidade máx.)	Barra de velocidad (% de velocidad máx.)	Шк.от макс. скорости	速度バー（計最高速パーセント表示）				Y	Y	Y	0.0 – 199.9 Km/h or 120.0 M/leh +/- 1%	Y	Y	Y	Y	Y	Y	10%-100% @ 1bar/pix
	7	Average Speed	Gemiddelde Snelheid	Velocidad moyenne	Durchschnittsgeschwindigkeit	Velocità media	Velocidade Média	Velocidad Media	Средняя скорость	平均速度		Y		Y	Y	Y		Y	Y	Y	Y	Y	199.9
	8	Speed Pacer	Snelheidspacer	Ritmo de pédaleo	Anzeige +/- der Durchschnittsgeschwindigkeit	Misuratore velocità	Regulador de Velocidade	Indicador de velocidad caminando	Скорость, пейсер	スピードペーサー			Y		Y	Y								
	9	Speed Comparison	Snelheidsvergelijking	Vitesse compacte	Geschwindigkeitsvergleich	Confronto velocità	Comparação de Velocidades	Comparación de velocidad	Сравнение скорости	スピード比較								Y	Y	Y	Y	Y	Y	
	10	Distance 1	Afstand 1	Distance 1	Tagesstrecke 1	Distanza 1	Distância 1	Distancia 1	Дистанция 1	距離（1）		Y	Y	Y	Y	Y	0.00 – 999.99 Km or Miles +/- 0.1%	Y	Y	Y	Y	Y	Y	999.99
	11	Distance 2	Afstand 2	Distance 2	Tagesstrecke 2	Distanza 2	Distância 2	Distancia 2	Дистанция 2	距離（2）							0.00 – 999.99 Km or Miles +/- 0.1%		Y	Y	Y	Y	Y	999.99
	12	ODO 1	ODO 1	Odómetro 1	Gesamtstrecke 1	ODO 1	ODO 1	ODO 1	Общий пробег 1	積算距離（1）	Y	Y	Y	Y	Y	Y	(XS/XB/X10) 0.0 – 19999.9 Km or Miles +/- 0.1% (W/TW12/WR) 0.0 – 99999.9 Km or Miles +/- 0.1%	Y	Y	Y	Y	Y	Y	99999 (XS/XB/X10) 0.0 – 19999.9 Km or Miles +/- 0.1% (W/TW12/WR) 0.0 – 99999.9 Km or Miles +/- 0.1%
	13	ODO2	ODO 2	Odómetro 2	Gesamtstrecke 2	ODO 2	ODO 2	ODO 2	Общий пробег 2	積算距離（2）					Y				Y	Y	Y	Y	Y	99999 (XS/XB/X10) 0.0 – 19999.9 Km or Miles +/- 0.1% (W/TW12/WR) 0.0 – 99999.9 Km or Miles +/- 0.1%
	14	ODO 1+2	DDO 1+2	Odómetro 1 + 2	Gesamtstrecke 1 + 2	ODO 1 + 2	ODO 1+2	DDO 1+2	Общий пробег 1+2	積算距離（1+2）					Y					Y	Y	Y	Y	99999
	15	Ride time 1	Rijtijd 1	Tiempo parcours 1	Fahrzeit 1	Tempo di percorrenza 1	Tempo de Viagem 1	Tiempo de recorrido 1	Время поездки 1	移動時間 1			Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	19:59:59
	16	Ride time 2	Rijtijd 2	Tiempo parcours 2	Fahrzeit 2	Tempo di percorrenza 2	Tempo de Viagem 2	Tiempo de recorrido 2	Время поездки 2	移動時間 2									Y	Y	Y	Y	Y	
	17	Total Ride time	Totale Rijtijd	Tiempo acuité total	Gesamt-Fahrzeit	Totale tempo di percorrenza	Tempo Total de Viagem	Tiempo Total de Viajem	Общее время поездки	総移動時間				Y		Y	Y			0H:00M - 199H:59M				Y	19:59:59
	18	Distance Countdown	Afteltieg Afstand	Décompte distance	Entfernung rückwärtszählend	Conto alla rovescia distanza	Distância Decrescente	Cuenta atrás de distancia	Обратный отсчет дистанции	距離逆算表示									Y	Y	Y	Y	Y	9999cm / mile
	19	Time to arrival (Arrival time/time remain)	Tijd tot aankomst (Aankomsttijd/restant	Tiempo restant à parcourir (Heure	Verbleibende Fahrzeit (Ankunftszeit / Rest-Fahrzeit)	Tempo prima dell'arrivo (tempo di arrivo)	Tempo prima dell'arrivo (tempo di arrivo)	Tempo para chegada (Tempo de	Tempo hasta la llegada (hora de llegada/tiempo restante)	到着予測時間									Y	Y	Y	Y	Y	
	20	% to arrival (Bar display)	% tot aankomst (Balkaanduiding)	% restant à parcourir (affichage)	Balkenanzeige verbleibende Fahrstrecke	% all'arrivo (display a barra)	% all'arrivo (display a barra)	% para chegada (Barra de mostrador)	% a llegada (mostrado en barra)	% до прибытия									Y	Y	Y	Y	Y	10% - 100% @ 1bar/pix
	21	2nd Wheel size	2de taille de roue	2. Laufradgröße	2. Laufradgröße	seconda dimensione ruote	2ª tamanho de roda	2º tamaño de rueda	Размер второго колеса	ホイールサイズ（2nd）									Y	Y	Y	Y	Y	0-3999mm
	22	Time (12/24hr)	Tijd (12/24 u)	Heure (12/24h)	Uhr (12 / 24 h)	Tempo (12/24h)	Horas (12/24horas)	Hora (12/24hr)	время (12/24 ч.)	時刻表示切替（12/24hr）	Y	Y	Y	Y	Y	Y	(XS/XB/X10) 12 /W/TW12/WR) 12/24	Y	Y	Y	Y	Y	Y	12/24
	23	Auto sleep	Automatische sluapstand	Mise en veilleuse auto	Batteriesparmodus	Auto sleep	Auto adormecimento	Auto sleep	Авто спящий режим	オートスリープ	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	5 min
	24	Heart rate	Hartslag	Frecuencia cardíaque	Pulsfrequenz	Frequenza cardiaca	Frequência cardíaca	Frecuencia cardíaca	Пульс	心拍数													Y	30-240bpm
	25	Max. Heart rate	Max. Hartslag	Frécuence cardiaque max.	Maximalpulsfrequenz	Frequenza cardiaca max.	Frequência cardíaca máxima	Ritmo cardíaco máx.	Максимальный пульс.	最高心拍数													Y	240bpm
	26	Average Heart rate	Gemiddelde Hartslag	Frécuence cardiaque moyenne	Durchschnitts-Pulsfrequenz	Frequenza cardiaca media	Frequência cardíaca média	Ritmo cardíaco medio	Средний пульс	平均心拍数													Y	240bpm
	27	Upper/Lower Limit w/ visable alarm	Bovenl/Ondergrens met zichtbaar alarm	Limite supérieure/inférieure avec alarme	Oberer / unterer Grenzwert mit optischem Signal	Limite max/min con allarme vision	Limites Superior/Inferior c/ alarme visível	Límites Superior/Inferior c/ alarma visual	Limite superior/inferior con alarma visible	上限値/下限値アミュット（アラーム付）													Y	
	28	Calorie	Calorie	Calories	Kalorien	Calorie	Calorias	Calorías	Калории	カロリー													Y	9999
	29	Fat burn	Vetverbranding	Graisses brûlées	Fettverbrennung	Grasso bruciati	Queima de gorduras	Calorías quemadas	Сложный жир	脂肪燃焼													Y	1.3Kg
	30	Calorie expenditure / Fat burn	Calorieverbruik / Vetverbranding	Calories dépensées / Graisses brûlées	Energieverbrauch / Fettverbrennung	Consumo calorie / Grasso bruciati	Calorie consumate / grasso bruciati	Consumo de calorías / Quema de gorduras	Gasto de calorías / Calorías quemadas	消費カロリー								Y	Y	Y	Y			9999KCAL / Fat burn
	31	Stopwatch	Stopwatch	Chronomètre	Stoppuhr	Cronometro	Cronómetro	Cronómetro	Секундомер	ストップウォッチ								Y	Y	1hr Laps x 9:59:59	1Hr Laps x 9:59:59	1Hr Laps x 9:59:59	1Hr Laps x 9:59:59	9:59:59
	32	Auto Lap (Time/Distance)	Automatische Ronde (Tijd/Afstand)	Tour Auto (Temps/Distance)	Auto-Runde (Zeit / Strecke)	Auto Lap (Tempo/Distanza)	Auto Lap (Tempo/Distancia)	Auto Vuelta (Tiempo/Distância)	Ручка автомобиля (Время / Расстояние)	オートラップ（時間 /距離）										Y	Y	Y	Y	(T)9:59:59/(D)9KM)
	33	Altimeter	Hoogtemeter	Altímetre	Höhenmesser	Altimetro	Altímetro	Altímetro	Высотомер	高度												Y	Y	-381M - 6000M
	34	Home Altitude storage	Vantrek hoogte	Altitude de départ	Ausgangshöhe	Memorizzazione altitudine base	Armazenamento de Altitude de Partida	Almacenamiento de Altitud de Partida	Memoria de altitud inicial	記憶標点高度メモリー												Y	Y	-381M - 6000M
	35	Altitude gain/loss	Hoogteverschil/verlies	Dénivelé positif/négatif	Höhengewinn / -verlust	Aumento/diminuire altitudine	Altitude ganho/perda	Pendiente/pérdida de altitud	Приобретение высоты	累積上昇/累積下降												Y	Y	999M
	36	% gradient	% helling	% de dénivelé de la pente	Steigungs- / Neigungswinkel	% gradiente	% gradiente	% inclinação	% градиента	%傾（パーセント）												Y	Y	+/-20%
	37	Power	Vermogen	Puissance	Leistung	Alimentazione	Potência	Potencia	Мощность	パワー												Y	Y	
	38	Temperature (C/F)	Temperatuur (C/F)	Température (C/F)	Umgebungstemperatur	Temperatura (C/F)	Temperatura (C/F)	Temperatura (C/F)	Температура (C/F)	気温						Y			Y	Y	Y	Y	Y	-20 – +60
	39	Max. Temperature	Max. Temperatuur	Température max	Höchsttemperatur	Temperatura max	Temperatura Máxima	Temperatura máx.	Макс. температура	最高気温									Y	Y	Y	Y	Y	-20 – +60
	40	Min. Temperature	Min. Temperatuur	Température min	Minimumtemperatur	Temperatura min	Temperatura Mínima	Temperatura mín.	Мин. температура	最低気温									Y	Y	Y	Y	Y	-20 – +60
	41	Cadence	Trapfrequentie	Cadence	Trittfrequenz	Cadenza	Cadência	Cadencia	Частота педалей	ケイデンス						Y	0-240rpm +/-1.5%		Y	Y				30 – 240
	42	Average Cadence	Gemiddelde Trapfrequentie	Cadence moyenne	Durchschnitts-Trittfrequenz	Cadenza media	Cadência Média	Cadencia media	Средняя частота педалей	平均ケイデンス									Y	Y				30 – 240
	43	Max Cadence	Maximale trapfrequentie	Cadence max.	Maximal-Trittfrequenz	Cadenza max	Cadência Máxima	Cadencia máx.	Макс. частота педалей	最高ケイデンス						Y			Y					30 – 240
	44	Total pedal revolution Bike 1+2	Totaal pedaalomwentelingen fiets 1 + 2	Total tours de pédale 1+2	Gesamt-Kurbelumdrehungen Fahrrad 1 + 2	Totale risoluzioni pedale 1 + 2	Rotação Total de pedal da Bicicleta 1+2	Total de revoluciones pedal de Bicicleta 1+2	Total revolutiones pedales bicicleta 1+2	Общее кол-во оборотов 1+2						Y								
	45	Easy Calibration	Eenvoudig calibreren	Calibrage sur mesure facile	Problemlose individuelle Kalibrierung	Facile calibrazione personalizzata	Fácil calibração de clarete	Fácil calibración de clarete	Sencilla calibración personalizada	Простая настройка														14 + custom
	46	Service interval reminder	Onderhoudsinterval indicator	Rappel intervalles	Wartungserinnerung	Avviso manutenzione	Aviso de Intervalo de Assistência	Recordatorio de intervalo de servicio	Напоминание о сервисе	インテラバル時間表示						Y		Y	Y	Y	Y	Y	Y	50Km for every 500Km
	47	EL Backlight	EL Backlight	Rétro éclairage EL	Hintergrundbeleuchtung	Retroilluminazione	Luz de Fundo EL	Retroiluminación EL	Фоновая подсветка EL	ＥＬバックライト										Y		Y	Y	
	48	Smart EL Backlight	Smart EL Backlight	Rétro éclairage EL Intelligent	Automatische Hintergrundbeleuchtung	Retroilluminazione intelligente dalle	Luz de Fundo EL Inteligente	Retroiluminación EL Inteligente	Интеллектуальная подсветка	スマートＥＬバックライト										Y		Y	Y	from 18:00 to 24:00
	49	Low battery indication	Lage batterij indicator	Indicateur piles faibles	Batteriewechselanzeige	Indicazione batteria scarica	Indicação de bateria fraca	Indicación de pila agotada	Индикатор низкого заряда батарей	電池残量表示					Y	Y				Y		Y	Y	2.6V
		Speed Transmitter	Snelheidszender	Transmetteur Vitesse	Geschwindigkeitssender	Trasmettitore velocità	Transmissor de Velocidade	Transmisor de velocidad	Передатчик скорости	スピードセンサーユニット					Y	Y			Y	Y		Y	Y	
		Cadence Transmitter	Trapfrequentie zender	Transmetteur Cadence	Trittfrequenzsender	Trasmettitore cadenza	Transmissor de Cadência	Transmisor de cadencia	Передатчик частоты педалей	ケイデンス・トランスミッター						Y								
		Heart Rate belt	Borstband voor hartslagmeter	Ceinture thoracique	Brustgurt	Fascia cardiofrequenzimetro	Cinta do Ritmo Cardíaco	Cinta para ritmo cardíaco	Ремень пульсометра	ハートレートベルト													Y	
		Handle bar bracket	Stuurhouder	Support cintre	Lenkerhalterung	Supporto manubrio	Suporte de guiador	Soporte para manillar	Кронштейн руля	ハンドルバーブラケット	Incl. Speed Sensor	Incl. Speed Sensor	Incl. Speed Sensor	Y	Y	Y		Incl. Speed Sensor	Y	Y	Incl. Cadence Sensor	Y	Y	
		Speed magnet	Magneet	Aimant Vitesse	Speichenmagnet	Magnete velocità	Magneto de Velocidade	Imán de velocidad	Спортивной элемент	マグネット	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
		Cable ties	Kabelklembandjes	Supports fils de montage	Kabelbinder	Fascette fermacavo	Fixadores de Cabo	Sujeción de cables	Клипсочки	ケーブル固定トラップ	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
		Accs.																						

		DIGI / PACE SERIES							*APEX SERIES*					
Item		**X5**	**X8**	**X10**	**W7**	**W12**	**WR**	**Limit**	**X-1.6**	**W-2.1**	**W-2.9 RPM**	**W-3.5 Alti**	**W-4.0 Alti-HR**	**Limit**
1	Speed	Y	Y	Y	Y	Y	Y	0.0 – 199.9 Km/h or 120.0 Mile/h +/- 1%	WIRED	ANALOG W/L	ANALOG W/L	ANALOG W/L	ANALOG W/L	199.9Km/h or m/h
2	No. of keys	1	1	1	1	1	2		2	2	4	4	4	
3	Scan	Y	Y	Y					Y	Y				
4	Auto Start	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	
5	Max. Speed		Y	Y	Y	Y	Y	0.0 – 199.9 Km/h or 120.0 Mile/h +/- 1%	Y	Y	Y	Y	Y	199,9
6	Speed bar (% of max. speed)								Y	Y	Y	Y	Y	10%-100% @ 10steps
7	Average Speed		Y	Y	Y	Y	Y	0.0 – 199.9 Km/h or 120.0 Mile/h +/- 0.1%	Y	Y	Y	Y	Y	199,9
8	Speed Pacer			Y		Y	Y							
9	Speed Comparison								Y	Y	Y	Y	Y	
10	Distance 1	Y	Y	Y	Y	Y	Y	0.00 – 999.99 Km or Miles +/- 0.1%	Y	Y	Y	Y	Y	999,99
11	Distance 2							0.00 – 999.99 Km or Miles +/- 0.1%		Y	Y	Y	Y	999,99
12	ODO 1	Y	Y	Y	Y	Y	Y	(X5/X8/X10) 0.0 – 19999.9 Km or Miles +/- 0.1% (W7/W12/WR) 0.0 – 99999.9 Km or Miles +/- 0.1%	Y	Y	Y	Y	Y	99999
13	ODO2					Y		(X5/X8/X10) 0.0 – 19999.9 Km or Miles +/- 0.1% (W7/W12/WR) 0.0 – 99999.9 Km or Miles +/- 0.1%		Y	Y	Y	Y	99999
14	ODO 1+2					Y		(X5/X8/X10) 0.0 – 19999.9 Km or Miles +/- 0.1% (W7/W12/WR) 0.0 – 99999.9 Km or Miles +/- 0.1%			Y	Y	Y	99999
15	Ride time 1		Y	Y	Y	Y	Y	0H00M00S - 19H59M59S	Y	Y	Y	Y	Y	19:59:59
16	Ride time 2							0H00M00S - 19H59M59S		Y	Y	Y		
17	Total Ride time			Y		Y	Y	0H00M - 1999H59M					Y	19:59:59
18	Distance Countdown									Y	Y	Y	Y	999Km / mile
19	Time to arrival (Arrival time/time remain)									Y	Y	Y	Y	
20	% to arrival (Bar display)									Y	Y	Y	Y	10% ~ 100% @ 10steps
21	2nd Wheel size								Y	Y	Y	Y	Y	0-3999mm
22	Time (12/24hr)	Y	Y	Y	Y	Y	Y	(X5/X8/X10) 12 (W7/W12/WR) 12/24	Y	Y	Y	Y	Y	12/24
23	Auto sleep	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	5 min
24	Heart rate												Y	30-240bpm
25	Max Heart rate												Y	240bpm
26	Average Heart rate												Y	240bpm
27	Upper/Lower Limit w/ visable alarm												Y	
28	Calorie												Y	9999
29	Fat burn												Y	1.3Kg
30	Calorie expenditure / Fat burn								Y	Y	Y	Y		9999KCAL / Fat burn
31	Stopwatch								Y	Y	19 Laps x 9:59:59	19 Laps x 9:59:59	19 Laps x 9:59:59	9:59:59
32	Auto Lap (Time/Distance)										Y	Y	Y	(T9:59:59/D99KM)
33	Altimeter											Y	Y	-381M ~ 6000M
34	Home Altitude storage											Y	Y	-381M ~ 6000M
35	Altitude gain/loss											Y	Y	9999M
36	% gradient											Y	Y	+/-20%
37	Power											Y	Y	
38	Temperature (C/F)						Y	0℃~+50℃, 32℉~+122℉			Y	Y	Y	-20 ~ +60
39	Max Temperature										Y	Y	Y	-20 ~ +60
40	Min Temperature										Y	Y	Y	-20 ~ +60
41	Cadence						Y	0-240rpm +/-1.5%			Y			30 ~ 240
42	Average Cadence										Y			30 ~ 240
43	Max Cadence										Y			30 ~ 240
44	Total pedal revolution Bike 1+2						Y	0~999999 Revolutions						
45	Easy Calibration										Y	Y	Y	14 + custom
46	Service interval reminder						Y		Y	Y	Y	Y	Y	50Km for every 500Km
47	EL Backlight										Y	Y	Y	
48	Smart EL Backlight										Y	Y	Y	from 18:00 to 24:00
49	Low battery indication				Y	Y	Y				Y	Y	Y	2.6V
Acc.	Speed Transmitter				Y	Y	Y			Y	Y	Y	Y	
	Cadence Transmitter						Y							
	Heart Rate belt												Y	
	Handle bar bracket	incl. Speed Sensor	incl. Speed Sensor	incl. Speed Sensor	Y	Y	Y		incl. Speed Sensor	Y	incl. Cadence Sensor	Y	Y	
	Speed magnet	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
	Cable ties	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	