Set up your Magellan 9800i scanner-scale

Your Magellan is connected to the till with **one cable** from its blue **HOST PORT** to the till's **COM1** serial port. That one cable carries the barcodes and the weight. This guide starts from the factory settings and takes you to a tested scanner-scale, one barcode at a time. It takes about 20 minutes.

1 Check the till profile → 2 Unplug the cable → 3 Scan barcodes 1 to 16 → 4 Plug in and turn on → 5 Test it

The second cable (SCALE port to COM2)

If your Magellan also has a cable from its green **SCALE HOST** port to the till's **COM2**, leave it plugged in. This one-cable set-up doesn't use it; it's only for the two-cable set-up, where the scale works out the price (see the two-cable guide).

Before you start

- **Print this guide at 100% size** (in the print window choose "Actual size", not "Fit to page"), on white paper. Don't scan from a phone or screen.
- Pages 8 and 9 are extra pages. Print them only if your shop has security tags, a handheld scanner plugged into the Magellan, or a reader on an arm above it.
- Do the set-up when this till isn't serving customers: it can't scan or weigh for sales until the test is done.
- Have a **blank sheet of paper** ready to cover barcodes, and a pen to tick the boxes.
- **For the test at the end:** a product, an itsPass code on a phone, and something you know the weight of, for example a 1 kg bag of sugar.
- **Use only this guide.** It has no Enter/Exit barcodes, so don't mix it with an older Magellan guide.
- Only an **Owner** or **Admin** can turn the scanner-scale on at the till.

1. Check the till profile (back office, done by itsPOS support or the Owner)

1. In **app.itspos.io**, open **Settings › Till profiles** and the profile your tills use.
2. Under **Scanner**, choose **Scanner-scale on a serial port (Datalogic Magellan)**.
3. Under **Scale**, choose **Datalogic Magellan 9800i** (the plain one, *not* Dialog06).
4. Press **Save changes**.

2. Unplug the HOST PORT cable from the till

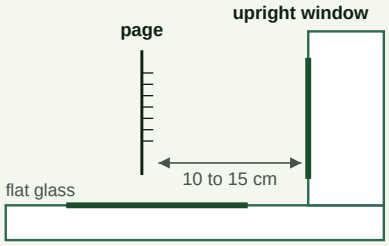
Unplug the cable at the **till end (COM1)** before you scan barcode 1. Datalogic warns that changing the cable type while it's plugged in can damage the scanner or the till's port. Leave the Magellan's power on.

3. Scan barcodes 1 to 16, one at a time

Barcode 1 puts the Magellan back to its factory settings, and barcode 2 sets the cable type. Barcodes 3 to 12 turn on what the till needs, including QR codes for itsPass and fresh food barcodes. Barcodes 13 to 15 are for codes on phone screens. Barcode 16 tells the Magellan it has no top-down reader.

For each barcode:

1. Cover the other barcodes on the page with a sheet of paper, or fold the page.
2. Hold the page 10 to 15 cm from the upright window, with the barcode facing it.
3. The Magellan gives a short run of beeps and restarts by itself. This takes 2 to 3 seconds. Take the page away.
4. Tick the box, then scan the next barcode.



The Magellan seen from the side

Good to know:

- Every barcode is complete on its own: one scan sets it and saves it.
- Scan the barcodes in order, and keep the platter empty until the test.
- **No beeps?** Move the page slowly nearer and further away, and tilt it slightly.
- **Six very quick chirps?** The Magellan refused the barcode. Check that the others are covered and scan it again.

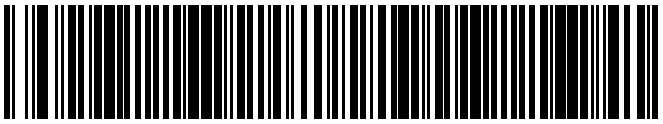
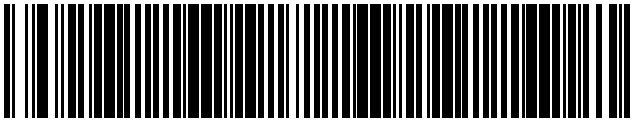
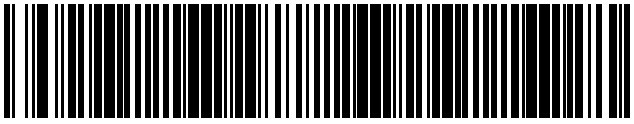
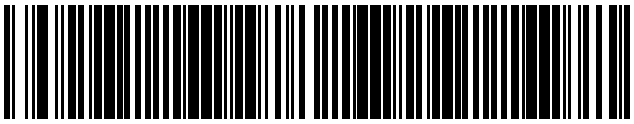
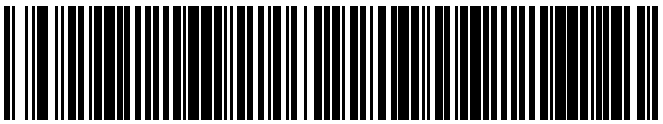
Barcodes 1 and 2: start here

These two clear every other setting. After them, always scan all the barcodes that follow.

No.	Setting	Scan this	Done
1	**Back to factory settings** Clears every setting from an earlier set-up. The cable type stays as it was. `Datalogic code 7FFC00`		☐
2	**Cable type: RS-232 single cable** One cable carries the barcodes and the weight. Scan it with the cable unplugged from the till. `Datalogic code 000120`		☐

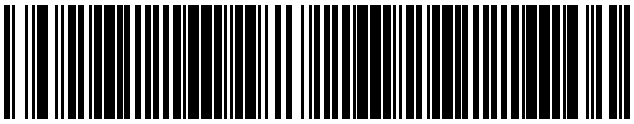
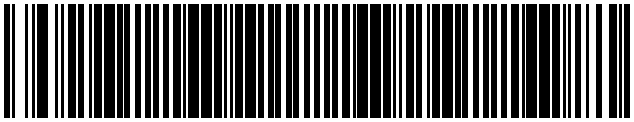
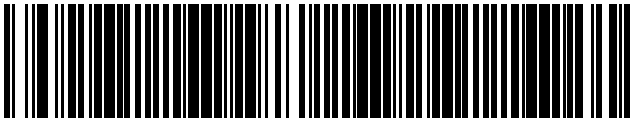
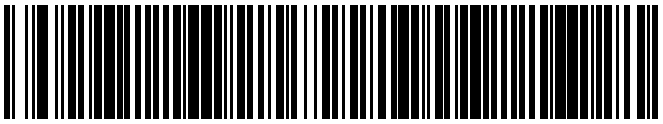
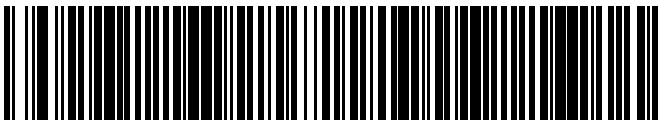
Barcodes 3 to 7: what the till needs

One barcode at a time · cover the others · wait for the beeps and the restart · tick the box

No.	Setting	Scan this	Done
3	**Code type prefix on (Global AIM ID)** Adds a short code that tells the till what kind of barcode it is. `Datalogic code 03A901`		☐
4	**Label ID off** Turns off the Magellan's own letter in front of each barcode. `Datalogic code 020500`		☐
5	**Scale goes back to zero between weighings** The scale gives no second weight until it has been back at zero. `Datalogic code 040802`		☐
6	**Can't force a weight while an item hangs over the edge** Switches off the button that overrides the edge guard. `Datalogic code 046300`		☐
7	**QR codes on (itsPass)** QR codes are off from the factory. itsPass codes need them. `Datalogic code 03D701`		☐

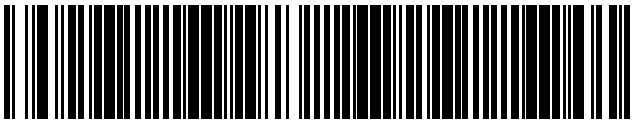
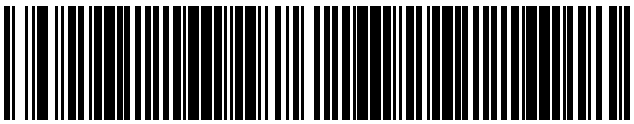
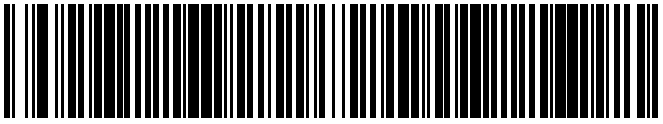
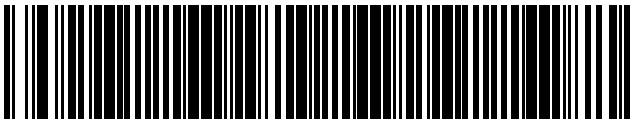
Barcodes 8 to 12: QR codes, Data Matrix and fresh food barcodes

One barcode at a time · cover the others · wait for the beeps and the restart · tick the box

No.	Setting	Scan this	Done
8	**GS1 QR codes on** QR codes that hold product details in the GS1 format. `Datalogic code 047501`		☐
9	**Data Matrix on** The small square codes printed on some packs. `Datalogic code 010001`		☐
10	**GS1 Data Matrix on** Batch and use-by codes. `Datalogic code 047401`		☐
11	**GS1 DataBar on (fresh food labels)** The small barcodes on loose and fresh food. `Datalogic code 04D001`		☐
12	**GS1 DataBar Expanded on** Fresh food barcodes that also hold a weight, a price or a date. `Datalogic code 04D101`		☐

Barcodes 13 to 16: phone screens and the top-down reader

One barcode at a time · cover the others · wait for the beeps and the restart · tick the box

No.	Setting	Scan this	Done
13	**Phone screens: reading always on** So the Magellan reads a code shown on a phone, such as an itsPass. `Datalogic code 046702`		☐
14	**Phone screens: frame rate 20%** How often the Magellan looks for a phone screen. `Datalogic code 047101`		☐
15	**Phone screens: read at the two main windows** The flat glass and the upright window. `Datalogic code 046D03`		☐
16	**No top-down reader (TDR off)** Tells the Magellan there is no reader on an arm above it. If yours has one, scan this anyway, then do extra page 2. `Datalogic code 046000`		☐

Barcodes 14 and 15 are for newer Magellans. If yours answers one of them with six very quick chirps, carry on with the next barcode, and tell us if a phone doesn't scan in the test.

All 16 boxes ticked?

Go on to step 4 on the next page. If your shop has security tags, a handheld scanner plugged into the Magellan, or a reader on an arm above it, scan its extra page first: pages 8 and 9.

4. Plug it back in and turn it on at the till

1. Plug the HOST PORT cable back into the till's **COM1**.
2. On the till, open **Settings › Hardware** and press **Change** on the **Scale** row (the panel is called **Scanner-scale**).
3. Choose port **COM1** and cable **Serial cable (RS-232)**, then press **Turn on** (or **Save** if the scale was already on). The row says **Connected on COM1**.

5. Test it

On the till, open **Settings › Hardware**. Tests 1 to 4 use **Test scan** on the **Scanner** row. Tick each test when it works.

Test QR code
`ITSPOS QR TEST 123`

1. **A product:** press **Test scan** and scan a product. ☐
2. **The test QR code:** scan the code on this page. The till shows **ITSPOS QR TEST 123**. ☐
3. **An itsPass on a phone:** show an itsPass code on a phone to the upright window: brightness full, 10 to 15 cm away, tilted slightly. No itsPass to hand? Take a photo of the test QR code and show the photo. ☐
4. **Fresh food:** scan a fresh food barcode if you have one. ☐
5. **Weight:** wait 15 minutes after switching on. On the **Scale** row press **Read weight**, put something you know the weight of on the platter (for example a 1 kg bag of sugar) and press **Yes** if the weight is right. ☐
6. **Zero:** press **Zero**, take everything off, and press **Yes** if it reads 0.000 kg. ☐

A test fails? See "If something doesn't work" on page 7.

Selling by weight: trade use

Until trade use is switched on, the till shows **Not for trade use**: weighing works for checks, and staff type the weight shown on the scale if their role allows it. To sell by weight from the scale, an **approved verifier or Trading Standards** must check this scale together with this itsPOS till in your shop. Then an Owner or Admin opens **Settings › Compliance › Weighed goods** in the back office, presses **Switch on trade use** on the till, enters the scale's serial number and who checked it, and ticks the declaration. Keep the verifier's papers in the shop. The verifier can read the till's **Weighing software** version and checksum on **Settings › Hardware › Scale**. Any change to the scale, cable, port or weighing software switches trade use off again until it is re-checked.

If something doesn't work

What happens	What to do
A setting barcode gives no beeps	Cover the other barcodes and hold the page 10 to 15 cm from the upright window, or flat and face down about 10 cm above the glass. Move it slowly nearer and further away. If the Magellan's lights are off, wave a hand in front of the upright window to wake it. Make sure you printed at 100% size.
Six very quick chirps and no restart	The Magellan refused the barcode. Check that the other barcodes are covered and scan it again. Still the same: take everything off the platter, pull the Magellan's power plug, wait 30 seconds, plug it back in and scan the barcode again.
The green light flashes slowly, one second on and one second off	The Magellan is waiting for setting barcodes, usually after an Enter/Exit barcode from an older guide. Take everything off the platter, pull its power plug for 30 seconds, plug it back in and scan the barcode again.
Nothing arrives at the till at all	Check the cable is in **COM1** at the till and in the blue **HOST PORT** on the Magellan. In **Change**, check port **COM1** and **Serial cable (RS-232)**. Still nothing: unplug the cable from the till and start again from barcode 1.
Scanner-scale not responding	Unplug the cable for 10 seconds and plug it back in. The till reconnects by itself.
Products scan, but the test QR code, itsPass codes or fresh food barcodes don't	Scan barcodes 7 to 12 again. Still the same: unplug the cable from the till and start again from barcode 1.
The test QR code scans from paper, but not from a phone	Scan barcodes 13 to 15 again. Turn the phone's brightness up, hold it 10 to 15 cm from the upright window and tilt it slightly. The code must be dark on a white background: if the phone shows it white on black, switch off dark mode.
Press zero on the scanner-scale	Take everything off the platter and press the zero button on the Magellan. If it keeps coming back, call us.
Make sure the item is fully on the platter	Something hangs over the edge. Move it onto the platter.
The next item won't weigh	The scale waits to go back to zero between items. Take everything off, then weigh the next item.
The weight jumps about	Keep the platter clear and still, away from fans or draughts. Wait 15 minutes after switching on.
Not for trade use on the weigh sheet	Trade use isn't switched on for this till yet. See "Selling by weight: trade use" on page 6.
Scale is set to pounds	The scale must weigh in kilograms, and only an approved verifier may change it. Call us.

Need help?

The itsPOS support team is here 08:00 to 20:00 every day except Christmas Day.
Call or WhatsApp: +44 7488 880320 · **Email:** support@itspos.io
Tell us your shop's name and the till's name, and the number of the barcode that gave trouble. Send a photo of the Magellan's cables and of the till's **Settings › Hardware** screen.

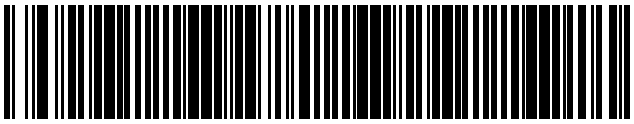
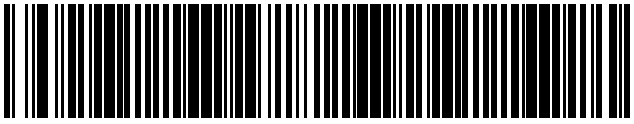
Built from Datalogic's Magellan 9800i Product Reference Guide and settings from Datalogic support. Datalogic and Magellan are trademarks of their owner. itsPOS by IT SOLVER LTD · itspos.io · 27 November 2026

Extra page 1: security tags or a handheld scanner

Skip this page if your Magellan has no security tag deactivator and no handheld scanner plugged into it.

Otherwise scan **only the line you need**, the same way as the other barcodes: once, then wait for the beeps and the restart. Your security system installer can tell you which tag system you have. Scanned a line you don't need? Call us, or start again from barcode 1.

One barcode at a time · cover the others · wait for the beeps and the restart · tick the box

No.	Setting	Scan this	Done
A	**Security tags: Sensormatic** The Magellan deactivates the tag when it reads the barcode. `Datalogic code 058001`		☐
B	**Security tags: Checkpoint, wired active high** `Datalogic code 00F901`		☐
C	**Security tags: Checkpoint, wired active low** `Datalogic code 00F900`		☐
D	**A handheld scanner plugged into the Magellan's AUX port** `Datalogic code 050901`		☐

Done? Go on with step 4 on page 6.

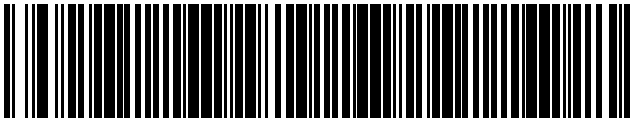
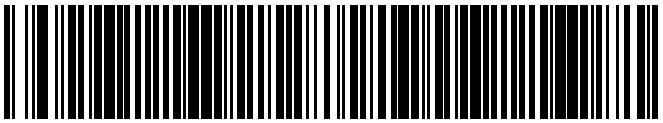
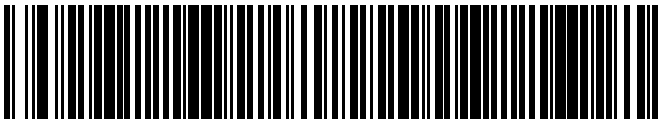
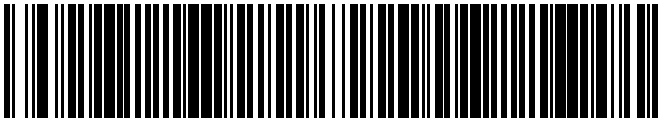
Extra page 2: a top-down reader with its customer-facing reader

Skip this page unless your Magellan has a reader on an arm above the scanner.

That arm is a top-down reader (TDR). It also holds a small reader that faces the customer. Most Magellans have neither. Don't scan this page without one: the Magellan may stop reading phones at its main windows.

Scan **T1 to T4 in order**, after barcode 16 and the same way as the other barcodes. Then go on with step 4. In the test, also pass a product under the arm with its barcode facing up, and show the itsPass code on the phone to the reader that faces the customer.

One barcode at a time · cover the others · wait for the beeps and the restart · tick the box

No.	Setting	Scan this	Done
T1	**Top-down reader on** Switches the reader on the arm back on. Barcode 16 switched it off. `Datalogic code 046001`		☐
T2	**Customer-facing reader on** The small reader on the arm that faces the customer. `Datalogic code 045F01`		☐
T3	**Customer-facing reader reads the same codes as the main scanner** So it reads QR codes such as an itsPass. `Datalogic code 03A800`		☐
T4	**Phone screens: read by the customer-facing reader** Datalogic's factory setting for a Magellan with this reader. `Datalogic code 046D00`		☐

Done? Go on with step 4 on page 6.