

## SERIES IDEA LPSS (1 idlers station) - BELT SCALE

### SERIES IDEA LPSS-1 WEIGHING MODULE - COMPLETE SYSTEMS (No ATEX, No MID)

Ramsey belt scale Series LPSS-1, by Thermo Scientific

Single weigh sensor designed to support n.1 idlers station, Thermo Ramsey's factory preassembled to be installed very easily on belt conveyors  
For belts having width < 600 mm (for belts having width < 1.600 mm it is possible to combine n.2 sensors)

Weighing assembly composed by:

- n.1 module made by stainless steel AISI 304 with stainless steel AISI 304 blades;
- n.1 stainless steel AISI 304 cover;
- n.1 high precision load cell (stainless steel, IP68, C3, 3 mt cable);
- n.1 digital speed pick-up (SPU) model 60-12 (or equivalent);
- n.1 junction box model IT8041PD, polycarbonate, IP54, for cable connections of two (2) load cells and one (1) speed pick-up;
- n.1 microprocessor control unit, model Micro-Tech 9101F (p/n 136033), field mount IP66 (NEMA-4X) enclosure, 98÷230Vac, 50-60 Hz. Comes standard with (4) programmable relè out, (2) optoinsulated digital in, (1) digital static out (FAIL or pulse), (1) Ethernet 100baseT, RJ45 interface, (1) serial out RS232/RS485 multidrop Modbus/RTU, Modbus/TCP, Ethernet/IP, (1) integrated USB, (3) programmable opto-insulated digital in and (4) optional expansion slots, available software languages: English, Spanish, German, Italian, French, Chinese simplified;
- working temperature (°C): -25 ÷ +50 (not condensing).



PART NO	SHORT DESCRIPTION	ADD INFO
LPSS-1-010	SINGLE MODULE (LPSS010) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW up to 600 mm
LPSS-1-020	SINGLE MODULE (LPSS020) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW up to 600 mm
LPSS-1-030	SINGLE MODULE (LPSS030) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW up to 600 mm
LPSS-1-050	SINGLE MODULE (LPSS050) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW up to 600 mm

### SERIES IDEA LPSS-2 WEIGHING MODULES - COMPLETE SYSTEMS (No ATEX, No MID)

Ramsey belt scale Series LPSS-2, by Thermo Scientific

Dual weigh sensors designed to support n.1 idlers station, Thermo Ramsey's factory preassembled to be installed very easily on belt conveyors  
For belts having width < 1.600 mm (for belts having width < 600 mm it is possible to use n.1 single sensor)

Weighing assembly composed by:

- n.2 modules made by stainless steel AISI 304 with stainless steel AISI 304 blades;
- n.2 stainless steel AISI 304 covers;
- n.2 high precision load cells (stainless steel, IP68, C3, 3 mt cable);
- n.1 digital speed pick-up (SPU) model 60-12 (or equivalent);
- n.1 junction box model IT8041PD, polycarbonate, IP54, for cable connections of two (2) load cells and one (1) speed pick-up;
- n.1 microprocessor control unit, model Micro-Tech 9101F (p/n 136033), field mount IP66 (NEMA-4X) enclosure, 98÷230Vac, 50-60 Hz. Comes standard with (4) programmable relè out, (2) optoinsulated digital in, (1) digital static out (FAIL or pulse), (1) Ethernet 100baseT, RJ45 interface, (1) serial out RS232/RS485 multidrop Modbus/RTU, Modbus/TCP, Ethernet/IP, (1) integrated USB, (3) programmable opto-insulated digital in and (4) optional expansion slots, available software languages: English, Spanish, German, Italian, French, Chinese simplified;
- working temperature (°C): -25 ÷ +50 (not condensing).



PART NO	SHORT DESCRIPTION	ADD INFO
LPSS-2-010	TWO MODULES (LPSS010) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW 350+1.600 mm
LPSS-2-020	TWO MODULES (LPSS010) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW 350+1.600 mm
LPSS-2-030	TWO MODULES (LPSS010) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW 350+1.600 mm
LPSS-2-050	TWO MODULES (LPSS010) + SPU (6012C) +JB (IT8041PD) + MT 9101F (p/n 136033)	BW 350+1.600 mm

### SERIES LPSS-1 AND LPSS-2 - BASIC OPTIONS FOR MECHANICAL PART

PART NO	MODEL NO.
10-XX-SET/SPESSORI-MIX	SET OF SHIMS TO ALIGN THE BELT SCALE - Same as p/n 003141
ATEX 22 (consult Factory)	SYSTEM SUITABLE FOR INSTALLATION IN ATEX ZONE 22 (LC, JB, SPU and MT or CK -MET)
ATEX 21 (consult Factory)	SYSTEM SUITABLE FOR INSTALLATION IN ATEX ZONE 21 (LC, JB, SPU and MT-MET)

### SERIES LPSS - PACKING

Fumigated wooden box for truck transport of n°1 BS 10-101RZ

PART NO	MODEL NO.
PACKING LPSS-1-XXX	N.2 CARDBOARD BOXES - STD - 50x40x30(h) CM (each) - GROSS WEIGHT ~25 KG (total)
PACKING LPSS-2-XXX	N.2 CARDBOARD BOXES - STD - 50x40x30(h) CM (each) - GROSS WEIGHT ~35 KG (total)
LARGE QUANTITIES	CONSULT FACTORY

### Belt loading requirements:

1. for LPSS-1: applications with loads <7 kg (16.5 lbs) or >50 kg (110 lbs) require factory review;
2. for LPSS-2: applications with loads <14 kg (33 lbs) or >100 kg (220 lbs) require factory review;
3. minimum net weight must be greater than 15% of load cell capacity;
4. maximum net weight must not exceed 85% of load cell capacity;
5. Weight includes weight of idler, belt and material;
6. maximum idler spacing 1.200 mm (~46").

### Note:

1. LPSS-1 requires a cross beam to support module and idler (excluded from Thermo Fisher Scientific supply);
2. LPSS-2 requires a cross beam to support modules and idler (excluded from Thermo Fisher Scientific supply).

### SERIES LPSS-1 AND LPSS-2 - SUPPORT CROSS BEAM

PART NO	MODEL NO.
10101RZ/LPSS-TRAV/FE/650	SUPPORT CROSS BEAM (Fe) TO FIX 10-101RZ/LPSS ON CONVEYORS HAVING BW < 650 MM
10101RZ/LPSS-TRAV/304/650	SUPPORT CROSS BEAM (Aisi 304) TO FIX 10-101RZ/LPSS ON CONVEYORS HAVING BW < 650 MM
10101RZ/LPSS-TRAV/316/650	SUPPORT CROSS BEAM (Aisi 316) TO FIX 10-101RZ/LPSS ON CONVEYORS HAVING BW < 650 MM
10101RZ/LPSS-TRAV/304/1600	SUPPORT BEAM (AISI 304) TO INSTALL 10-101RZ/LPSS ON CONVEYORS HAVING BW 651+1-600 M