

Combics

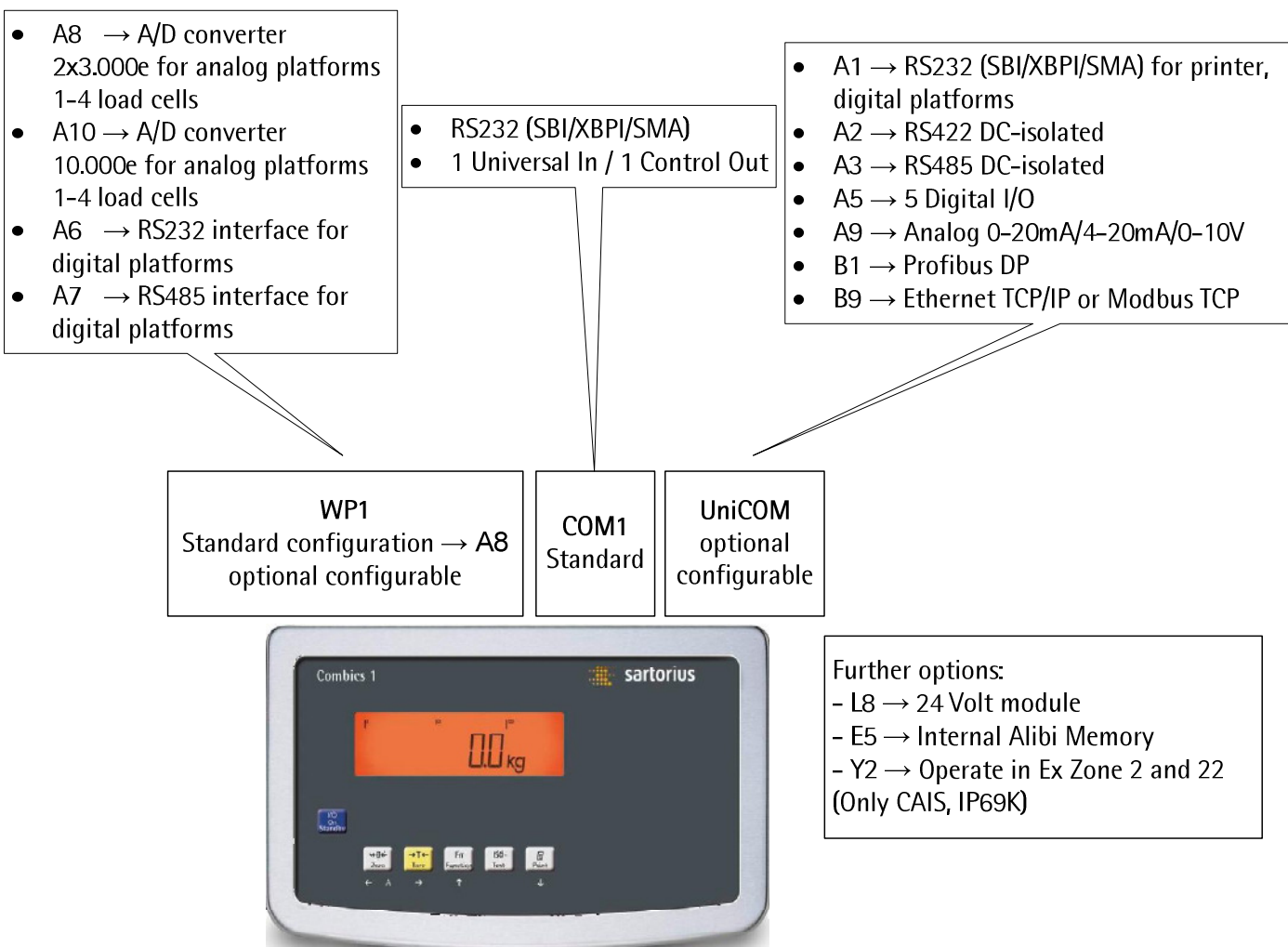
Applications, Configurations and Interfaces



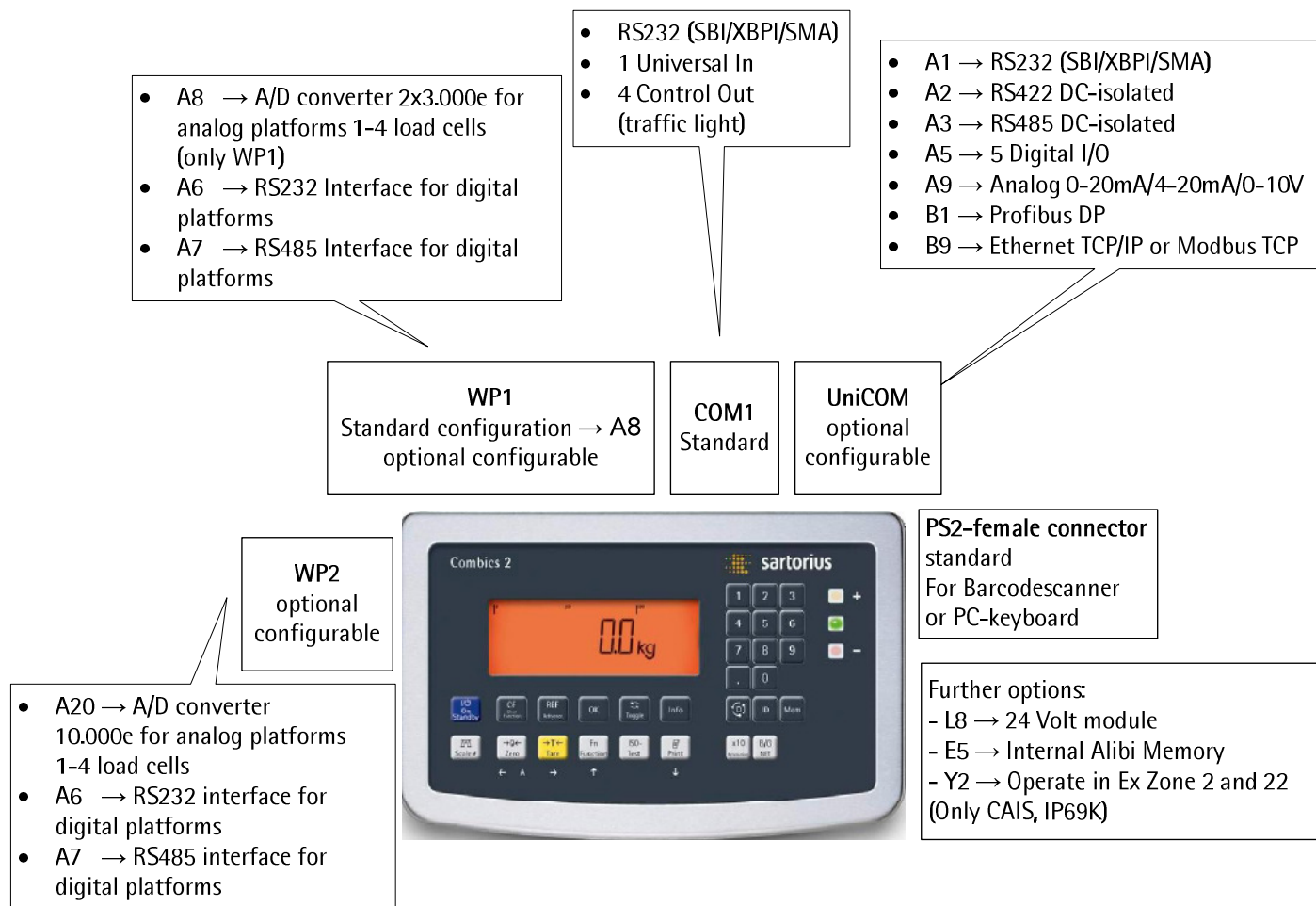
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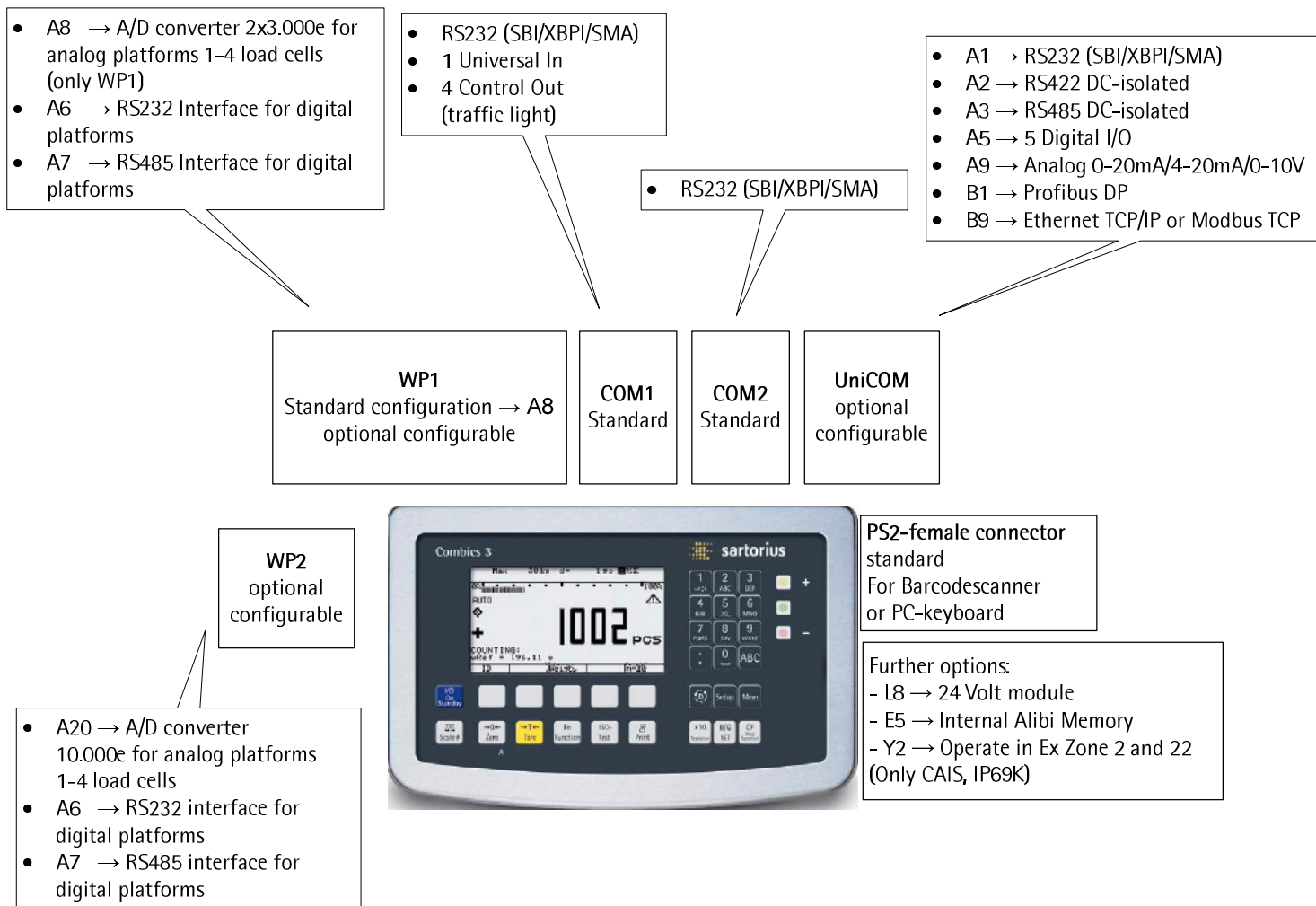
Overview Combics 1



Overview Combics 2



Overview Combics 3



Possible connections: Printer



YDP10-OCE / YDP20-OCE connection cable:

CAIS → Option **M9**
Accessory YCC02-D09F6

CAISL → 7357314

Connection
via
Interface:

- **COM1**
RS232



YDP04/14IS-OCEUV connection cable:

CAIS → Option M3 (via COM1)

Option M23 (via COM2)

Option M33 (via UniCOM)

Accessory YCC02-D09F6

CAISL → YCC01-01CISLM3 (for COM1 and UniCOM)

YCC04-D09M6 (for COM2)

Connection
via
Interface:

- **COM1**
RS232

- **COM2**
RS232

- **UniCOM**
RS232

- **COM1**
RS232

- **UniCOM**
RS232



- **COM1**
RS232

- **UniCOM**
RS232



- **COM1**
RS232

- **COM2**
RS232

- **UniCOM**
RS232



Possible connections: PC



PC connection cable (RS232 / RS422 / RS485) CAIS → Option M4 (via COM1) Option M24 (via COM2) Option M34 (via UniCOM) Accessoery YCC02-D09F6 CAISL → 7357314 (via COM1 and UniCOM) YCC04-D09F6 (via COM2) PC connection cable (Ethernet TCP/IP) CAIS → Option M38 (via UniCOM) Accessory YCC02-RJ45M7 CAISL → Standard Ethernet cable	Connection via Interface:
	COM1 • RS232
	COM2 • RS232
	UniCOM • RS232 • RS422/485 • Ethernet TCP/IP • Profibus

COM1 • RS232
--

UniCOM • RS232 • RS422/485 • Ethernet TCP/IP • Profibus
--



COM1 • RS232
--

UniCOM • RS232 • RS422/485 • Ethernet TCP/IP • Profibus
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COM1 • RS232	COM2 • RS232	UniCOM • RS232 • RS422/485 • Ethernet TCP/IP • Profibus
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Possible connections: Peripheral devices



YBR03PS2 / Keyboard connection cable:
CAIS → YCC02-BR02 & YBR03FC
CAISL → YBR03PS2

PS2 female connector

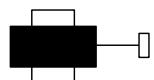
PS2 female connector



Power supply



This symbol next to a unit means "SEPARATE POWER SUPPLY REQUIRED"



This symbol next to a unit means "T-connector required". Not required for Combics IP67 versions.

- Combics1 through Combics3 have a built-in internal wide-range power supply for all relevant line voltage ratings.
- The weighingpoints of Combics1 through Combics3 can be configured as it's required. You can choose between several interfaces: A/D converter 2x3.000e (Option A8), A/D converter 10.000e (Option A10 respectively A20), RS232 (Option A6 respectively A62), RS485 (Option A7 respectively A72)
- In addition to an analog platform, a digital platform of the IS series can be connected to the COM1 port on the Combics2 and Combics3 and can be powered by this terminal. By operating the IS-platform at COM2 or UNICOM a external power supply is recommended.
- Depending on the peripherals connected, a separate power source for the digital platform will be needed for some equipment configurations. In these cases, an upgrade kit YAS03IS and the ING2 IP65 benchtop power supply will be required.
- Compact scales, except for BL and CP balances, that are connected to the Combics terminal will have their own power supply.
- The laboratory printer YDP20-OCE will be powered only via the COM1 port.
- A bar code scanner with a keyboard-compatible port can only be connected and energized via PS2 interface.
- Additional info: If a digital IS platform is to be connected to COM1, only the RS-232 standard will be available. Therefore, the platform will have to be equipped with the optional YD0052/54/58IS interface.
- In the diagrams the cabeling is shown. Necessary additional data outputs are not listed.

Combics – Interface options

To allow a clear defined classification of the cable options to the interface used, we extended the order number:

- : Cable options for Combics 3 Interface COM2 got a leading number "2", e. g. M23
- : Cable options for Combics 1/2/3 Interface UniCOM got a leading number "3", e. g. M33
- : Cable options for Combics 1/2/3 Interface COM1 retain single numbers, e. g. M3

Interface options – Combics 1 (CAIS1) – COM1 and UniCOM

Connected devices		Interface COM1
Picture	Description	COM1 (RS232)
	Printer YDP10-OCE	M9
	Printer YDP20-OCE	M9
	Printer YDP04IS, YDP14IS	M3
	PC	M4
	Remote display YRD03Z	M1
	Hand- / Footswitch YFS01 / YHS02	M1

Connected devices		Interfaces UniCOM						
Picture	Description	A1 RS232	A2 RS422	A3 RS485	A5 5 digital I/O's	A9 0/4-20mA	B1 ProfibusDP	B9 Ethernet TCP/IP
	Printer YDP04IS, YDP14IS	M33	--	--	--	--	--	--
	PC	M34	--	--	--	--	--	M38

Interface options – Combics 2 (CAIS2) – COM1

Connected devices		Interface COM1
Picture	Description	COM1 (RS232)
	Printer YDP10-OCE	M9
	Printer YDP20-OCE	M9
	Printer YDP04IS, YDP14IS	M3
	PC	M4
	Remote display YRD03Z	M1
	Hand- / Footswitch YFS01 / YHS02	M1
	Control display YRD14Z	M1
	IS-platform	M7
	YSB01 Relay-box	M12
	Signum complete scale (min. IP65)	M12
	Midrics complete scale (min. IP65)	M12

Interface options – Combics 2 (CAIS2) – UniCOM

Connected devices		Interfaces UniCOM						
Picture	Description	A1 RS232	A2 RS422	A3 RS485	A5 5 digital I/O's	A9 0/4-20mA	B1 ProfibusDP	B9 Ethernet TCP/IP
	Printer YDP04IS, YDP14IS	M33	--	--	--	--	--	--
	PC	M34	--	--	--	--	--	M38
	IS-platform	M37	--	M37	--	--	--	--
	Signum complete scale (min. IP65)	M12	--	M12	--	--	--	--
	Midrics complete scale (min. IP65)	M12	--	M12	--	--	--	--

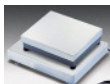
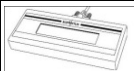
Interface options – Combics 3 (CAIS3) – COM1

Connected devices		Interface COM1
Picture	Description	COM 1 (RS232)
	Printer YDP10-OCE	M9
	Printer YDP20-OCE	M9
	Printer YDP04IS, YDP14IS	M3
	PC	M4
	Remote display YRD03Z	M1
	Hand- / Footswitch YFS01 / YHS02	M1
	Control display YRD14Z	M1
	IS-platform	M7
	YSB01 Relay-box	M12
	Signum complete scale (min. IP65)	M12
	Midrics complete scale (min. IP65)	M12

Interface options – Combics 3 (CAIS3) – COM2

Connected devices		Interface COM2
Picture	Description	COM2 (RS232)
	Printer YDP04IS, YDP14IS	M23
	PC	M24
	IS-platform	M27
	Sgnum complete scale (min. IP65)	M12
	Midrcis complete scale (min. IP65)	M12

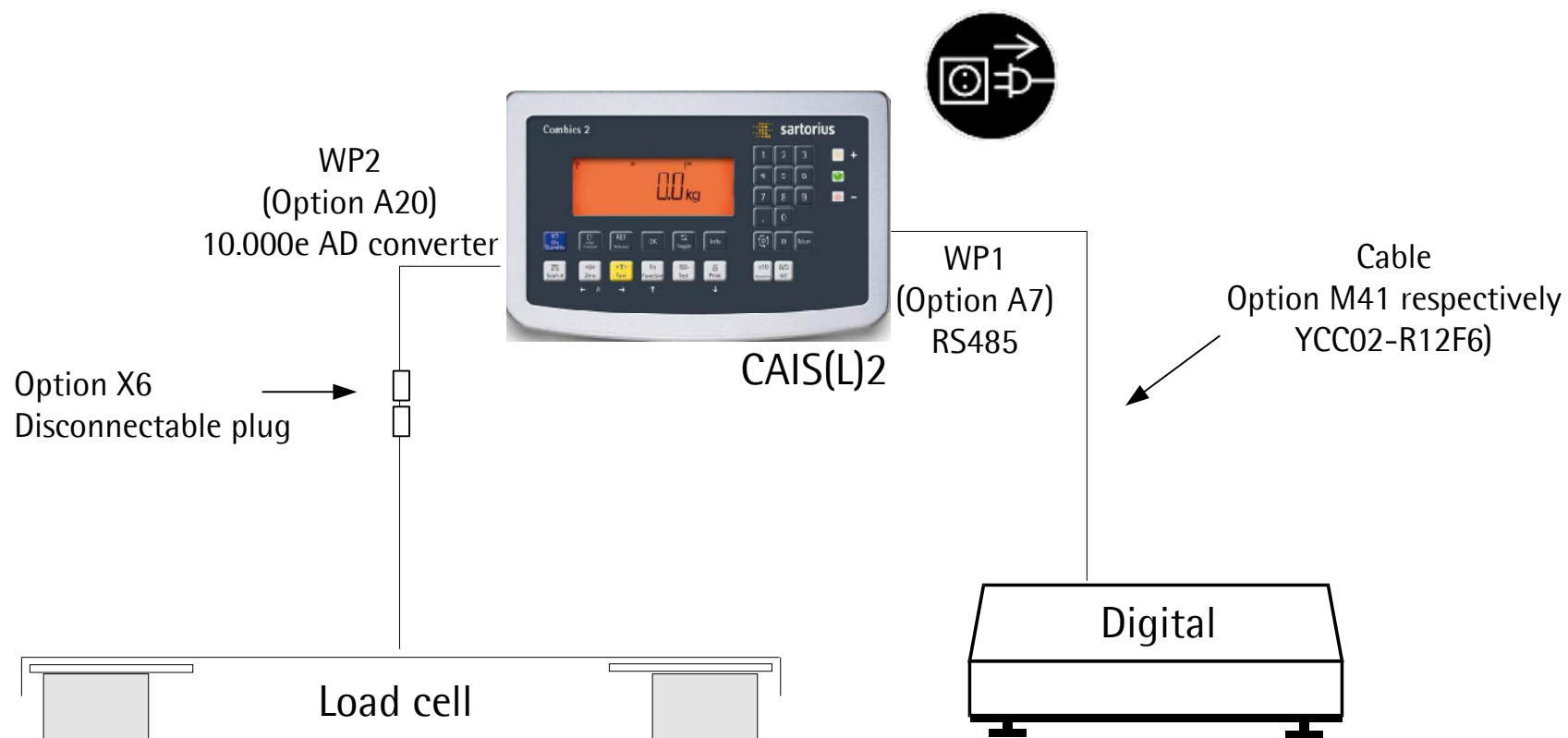
Overview cable options

		WP1	WP2 (CAIS2 + 3)	UNICOM	COM1	COM2 (CAIS3)	
Picture	Description	Option				Accessory	
	Printer YDP04IS / 14IS	/	/	M33	M3	M23	YCC02-D09M6
	Printer YDP20-OCE	/	/	/	M9	/	YCC02-D09F6
	Printer YDP10-OCE	/	/	/	M9	/	YCC02-D09F6
	PC	/	/	M34 M38 (Ethernet TCP/IP)	M4	M24	YCC02-D09F6 YCC02-RJ45M7
	IS-platform	M41	M97	M37	M7	M27	YCC02-R12F6
	Accessory YRD03Z Remote Display	/	/	/	M1	/	YCC02-D25F6
	Relay-box VF3033, YSB01 or I/O-Modul YSB02	/	/	M12	/	M12	YCC02-RELAIS02
	CAIS as Remote display	/	/	M12		M12	YCC02-RELAIS02
	Signum complete scale (min. IP65)	/	/	M12	M12	M12	YCC02-RELAIS02
	Midrics complete scale (min. IP65)	/	/	M12	M12	M12	YCC02-RELAIS02

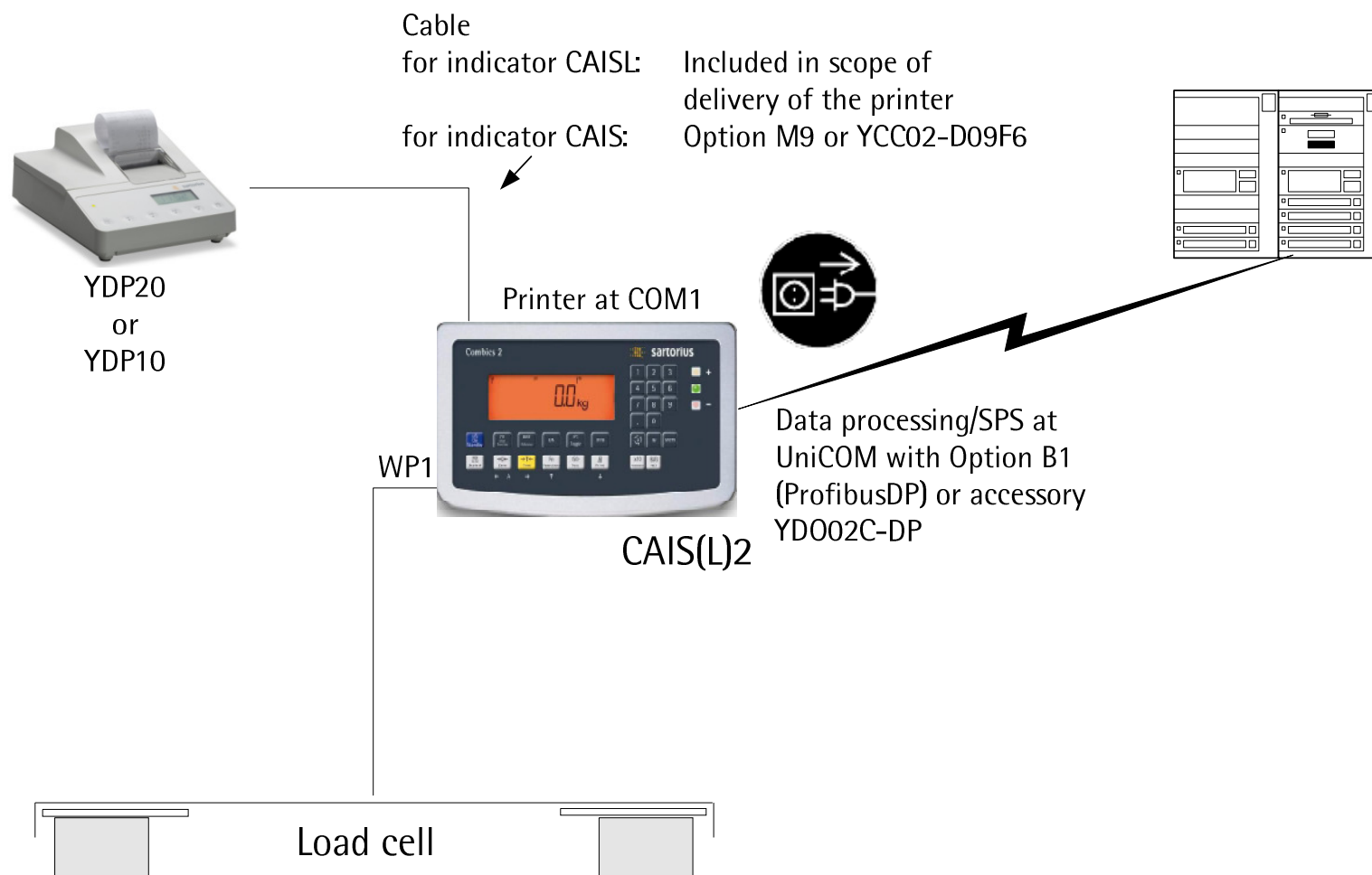
Interface options – Combics 3 (CAIS3) – UniCOM

Connected devices		Interface UniCOM						
Picture	Description	A1 RS232	A2 RS422	A3 RS485	A5 5 digital I/O's	A9 0/4-20mA	B1 ProfibusDP	B9 Ethernet TCP/IP
	Printer YDP04IS, YDP14IS	M33	--	--	--	--	--	--
	PC	M34	--	--	--	--	--	M38
	IS-platform	M37	--	M37	--	--	--	--
	Relay-box (Only with option H3/H4) YSB01	M12	--	--	--	--	--	--
	Digital I/O's YSB02	--	--	M12	--	--	--	--
	Relay-box (Only with option H4) VF3033	--	--	M12	--	--	--	--
	Signum complete scale (min. IP65)	M12	--	M12	--	--	--	--
	Midrics complete scale (min. IP65)	M12	--	M12	--	--	--	--

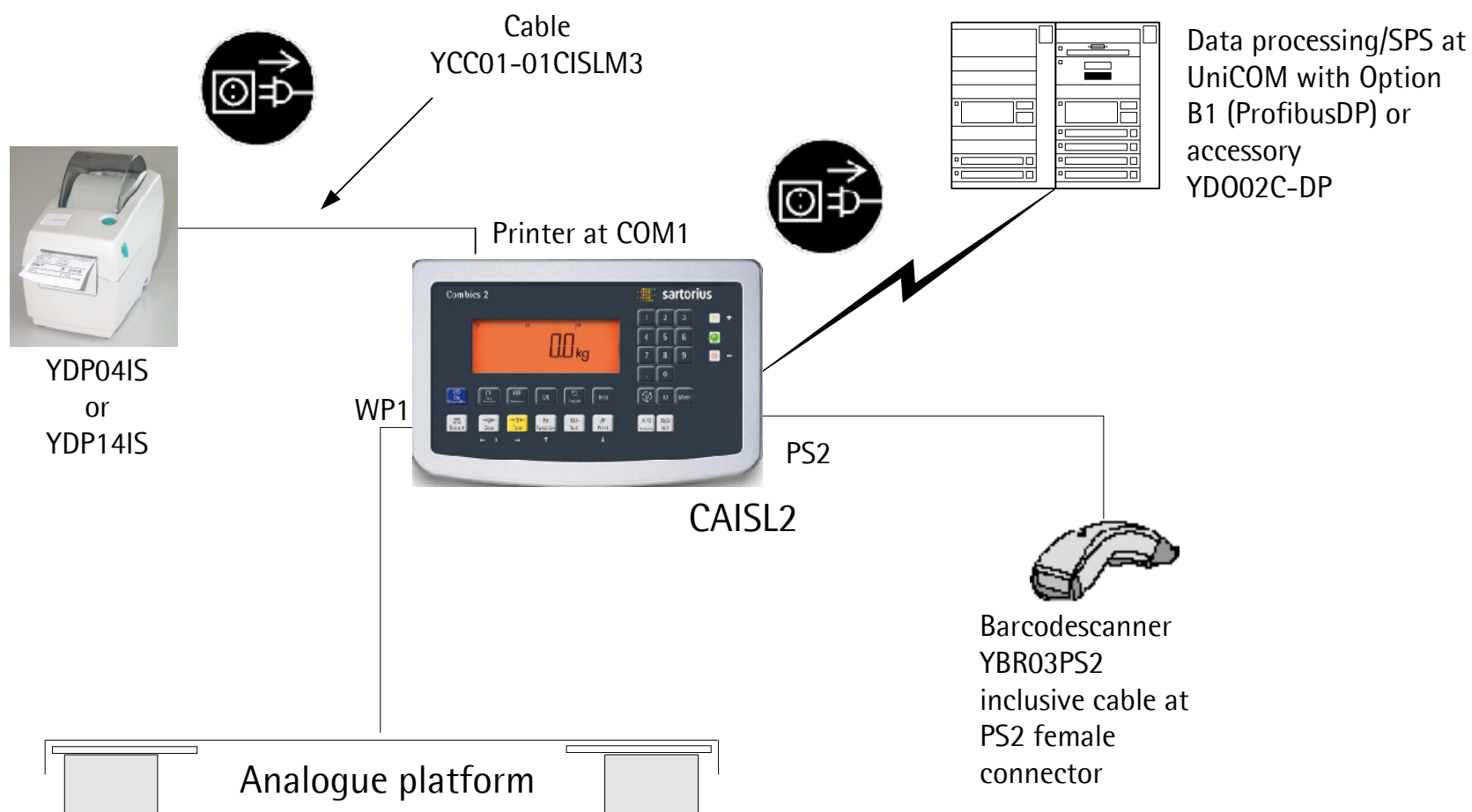
Weighing/Counting with Indicator CAIS(L)2 and two platforms



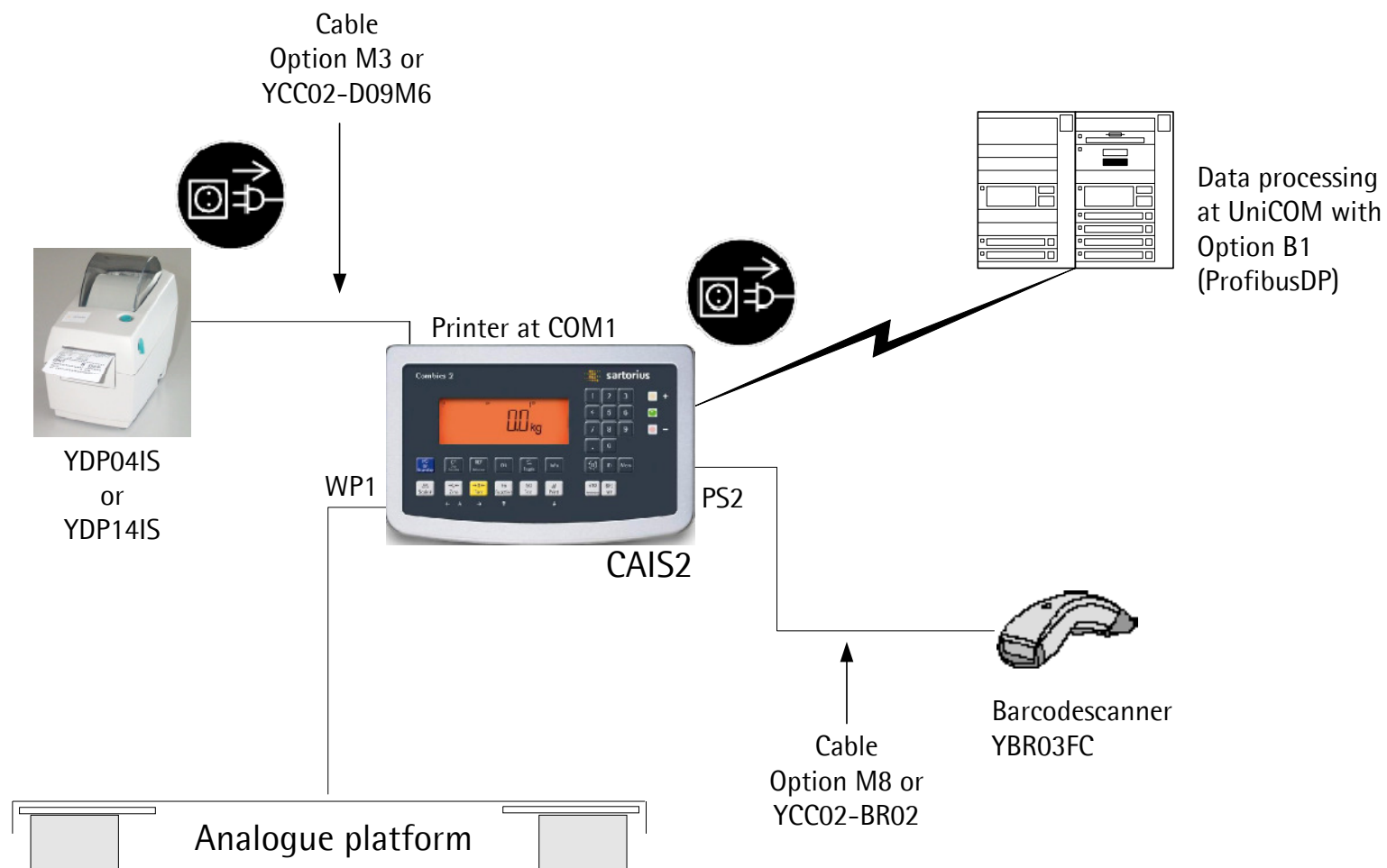
Counting with Indicator CAIS(L)2, Load cell and YDP20-OCE



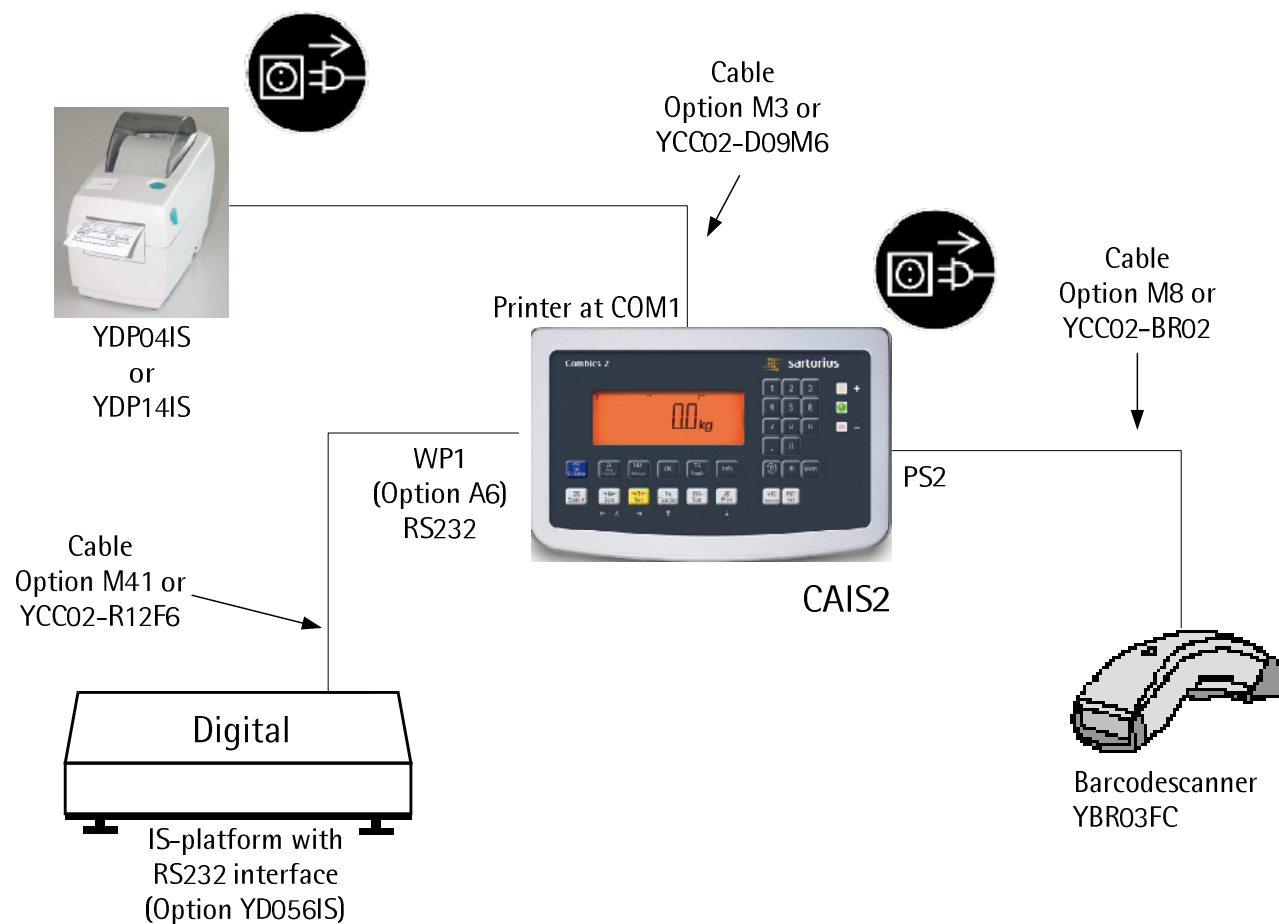
Counting with indicator CAISL2, load cell and YDP04/14IS



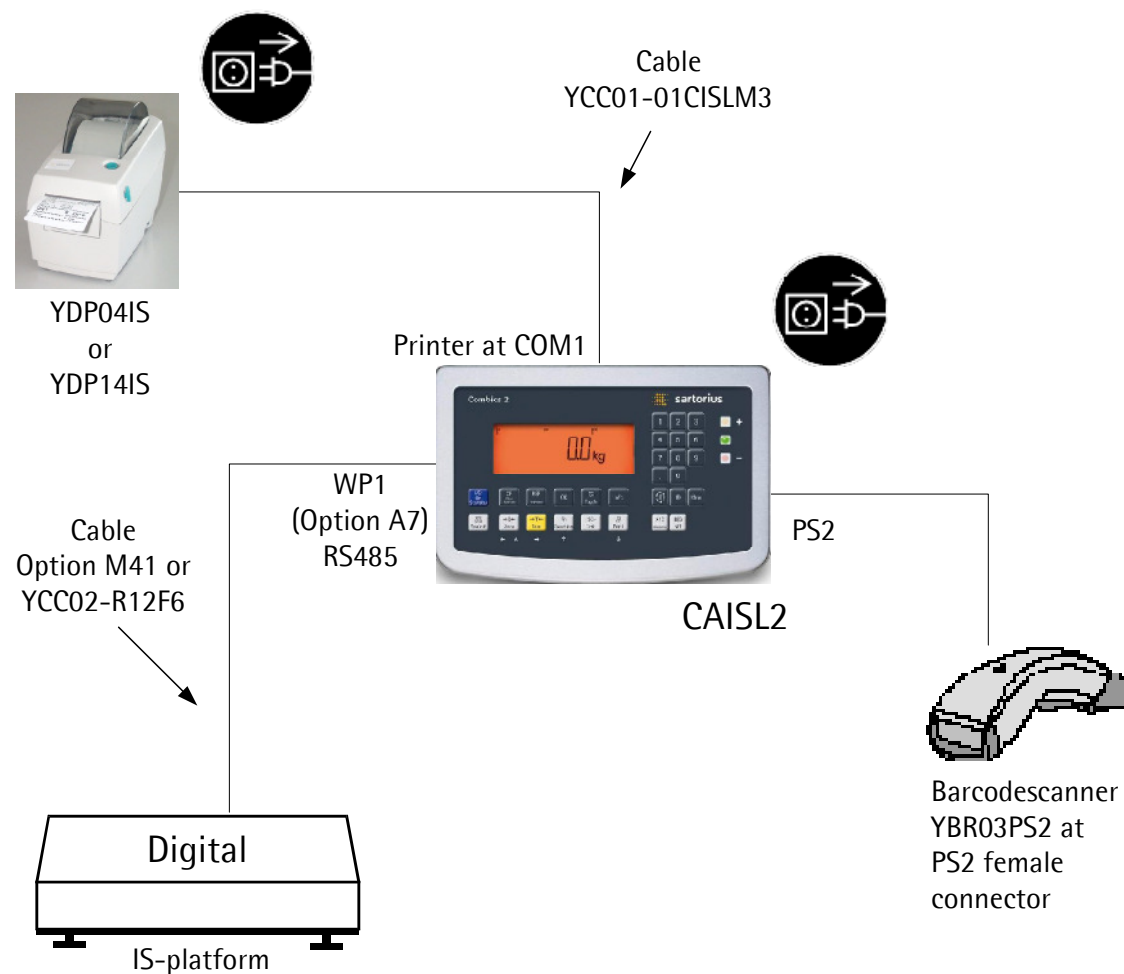
Counting with Indicator CAIS2, load cell and peripheral devices



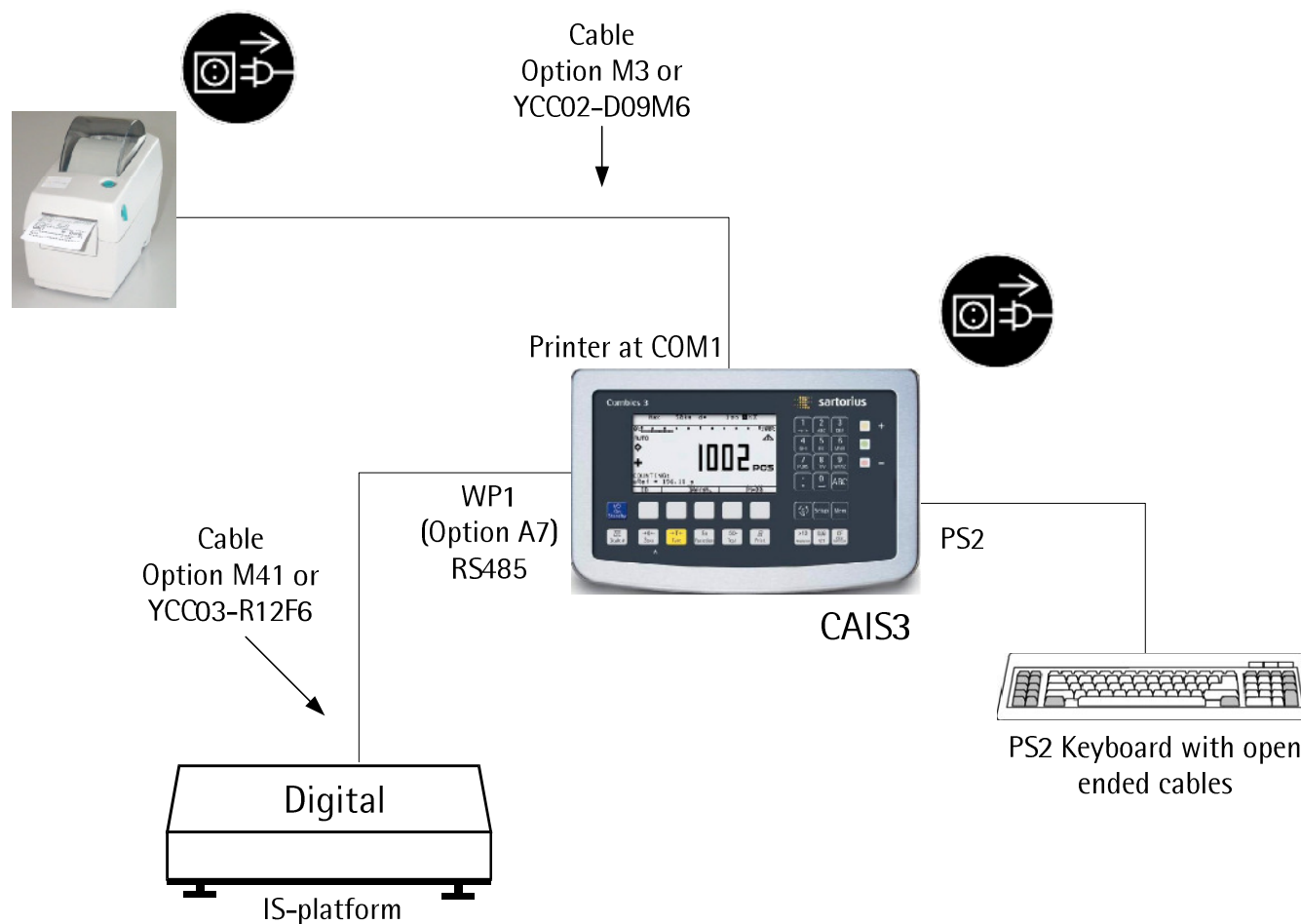
Counting with indicator CAIS2, IS-platform and peripheral devices



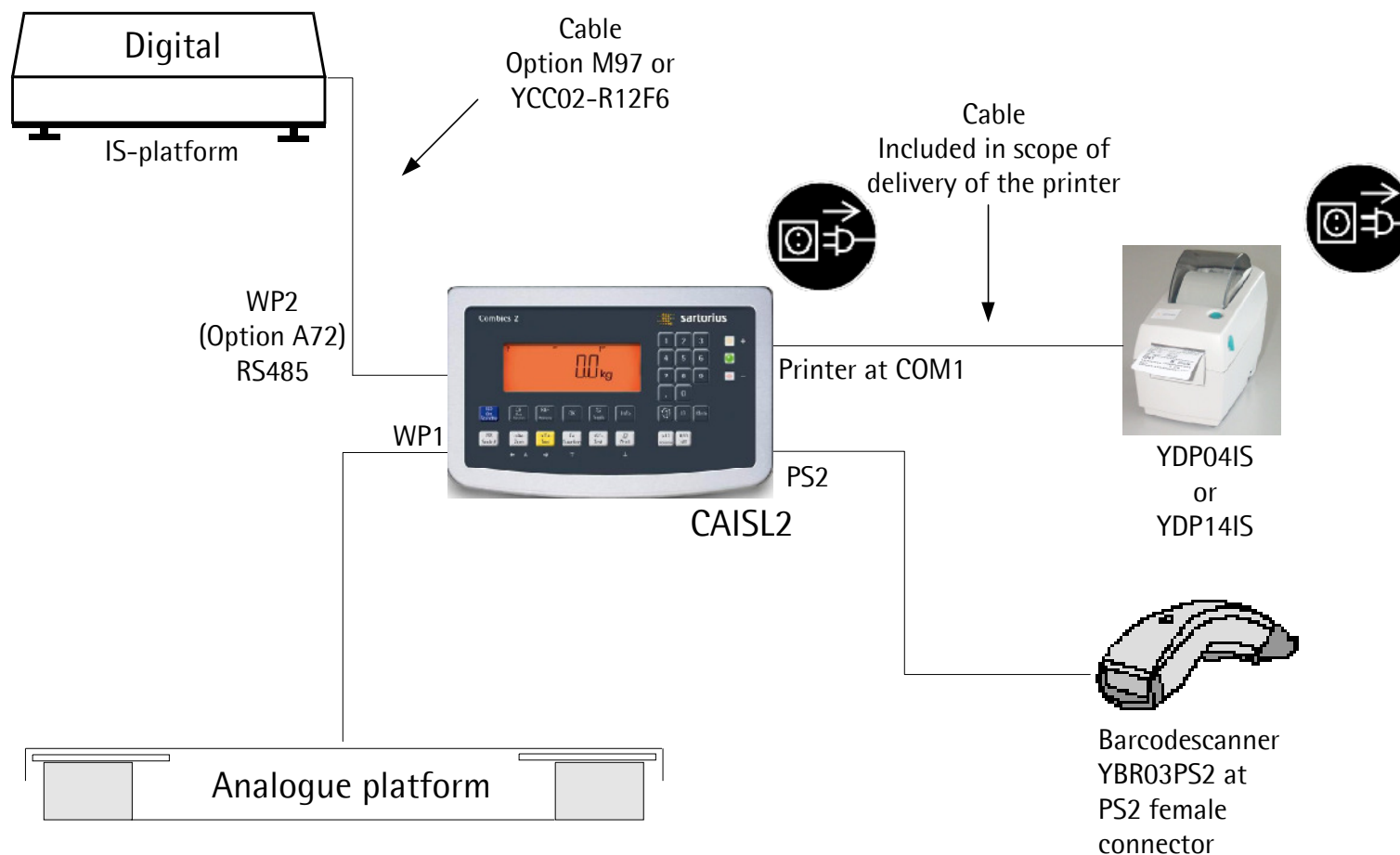
Counting with indicator CAISL2, IS-platform and peripheral devices



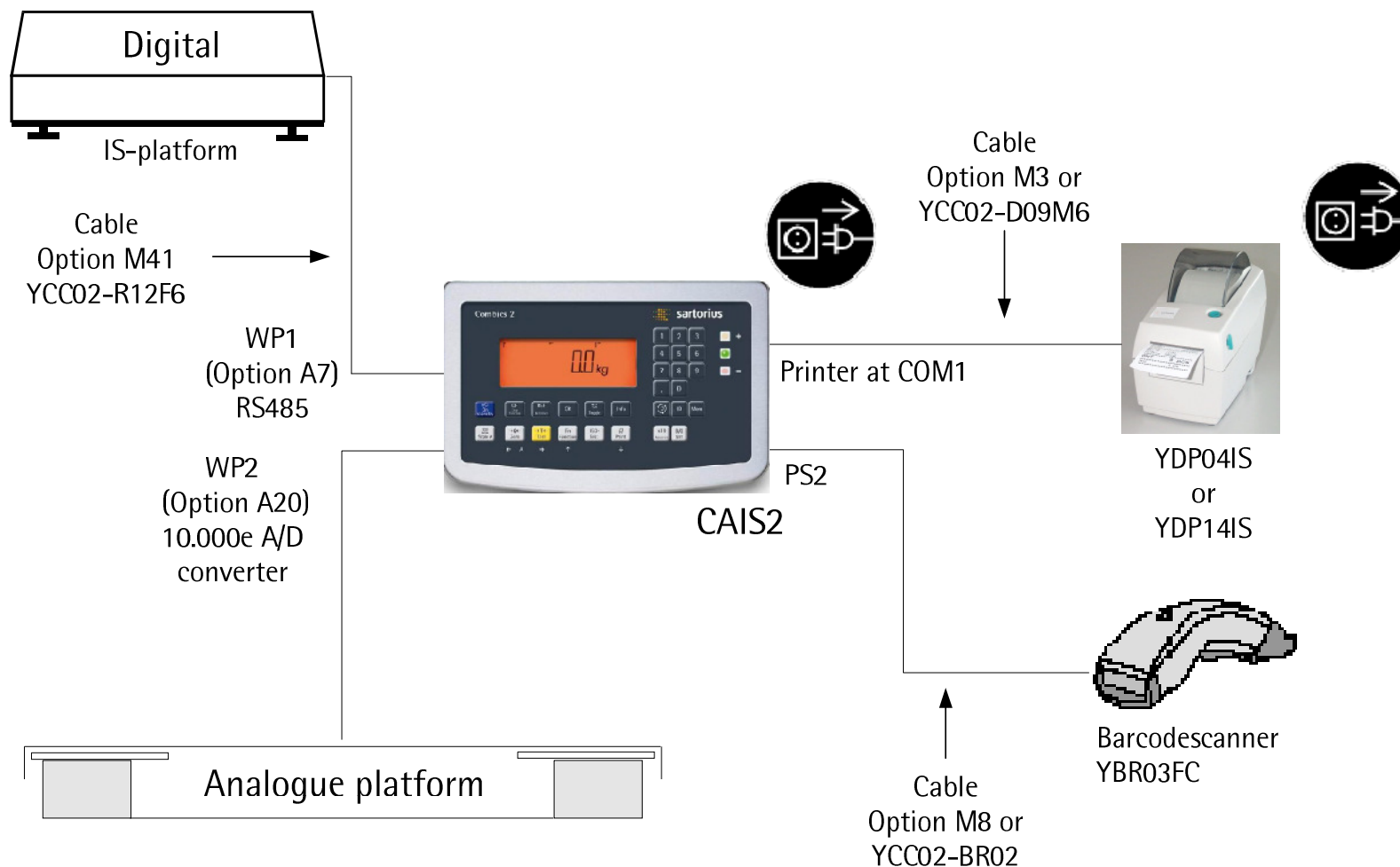
Counting with PC-keyboard with indicator CAIS3



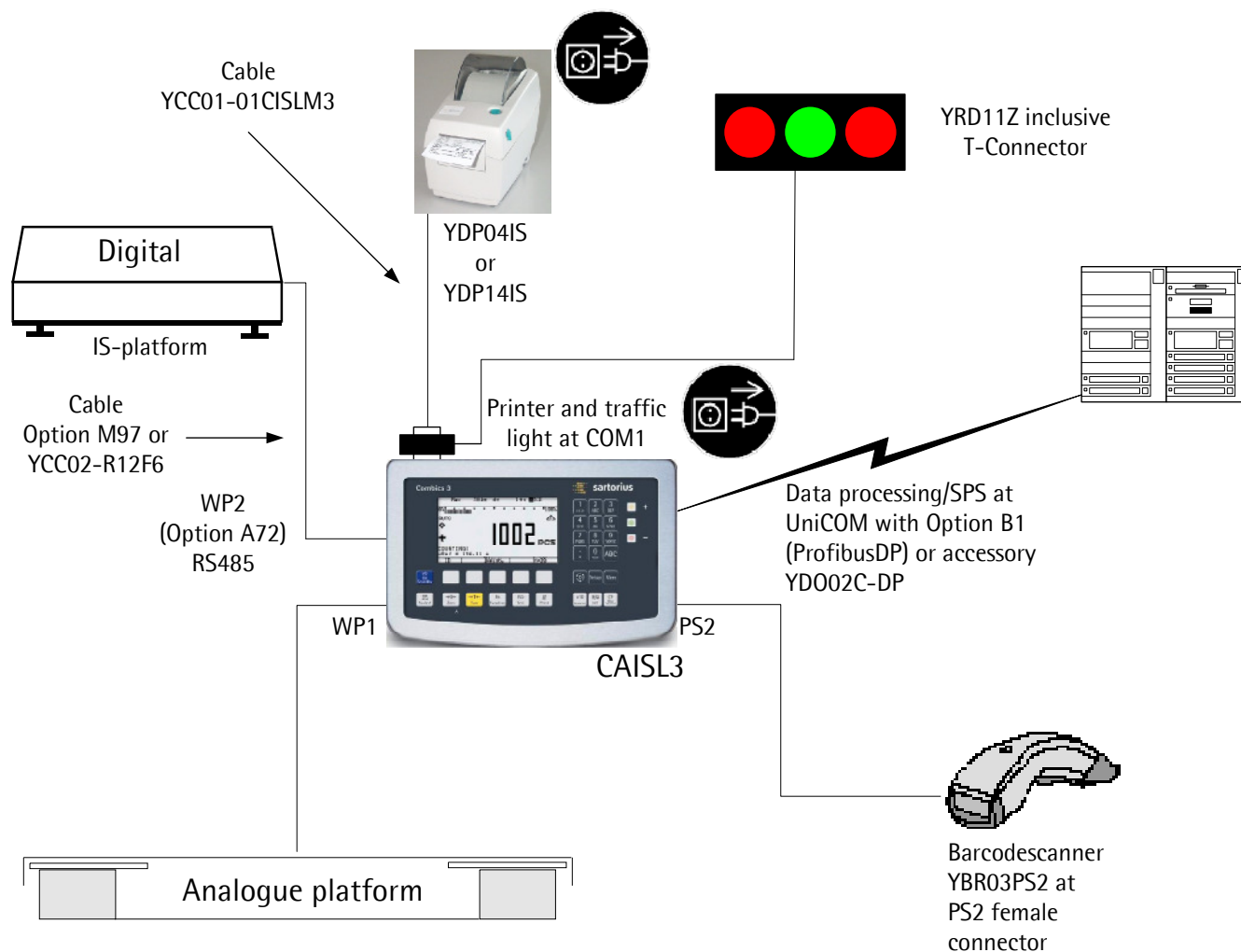
Counting with indicator CAISL2, two platforms and peripheral devices



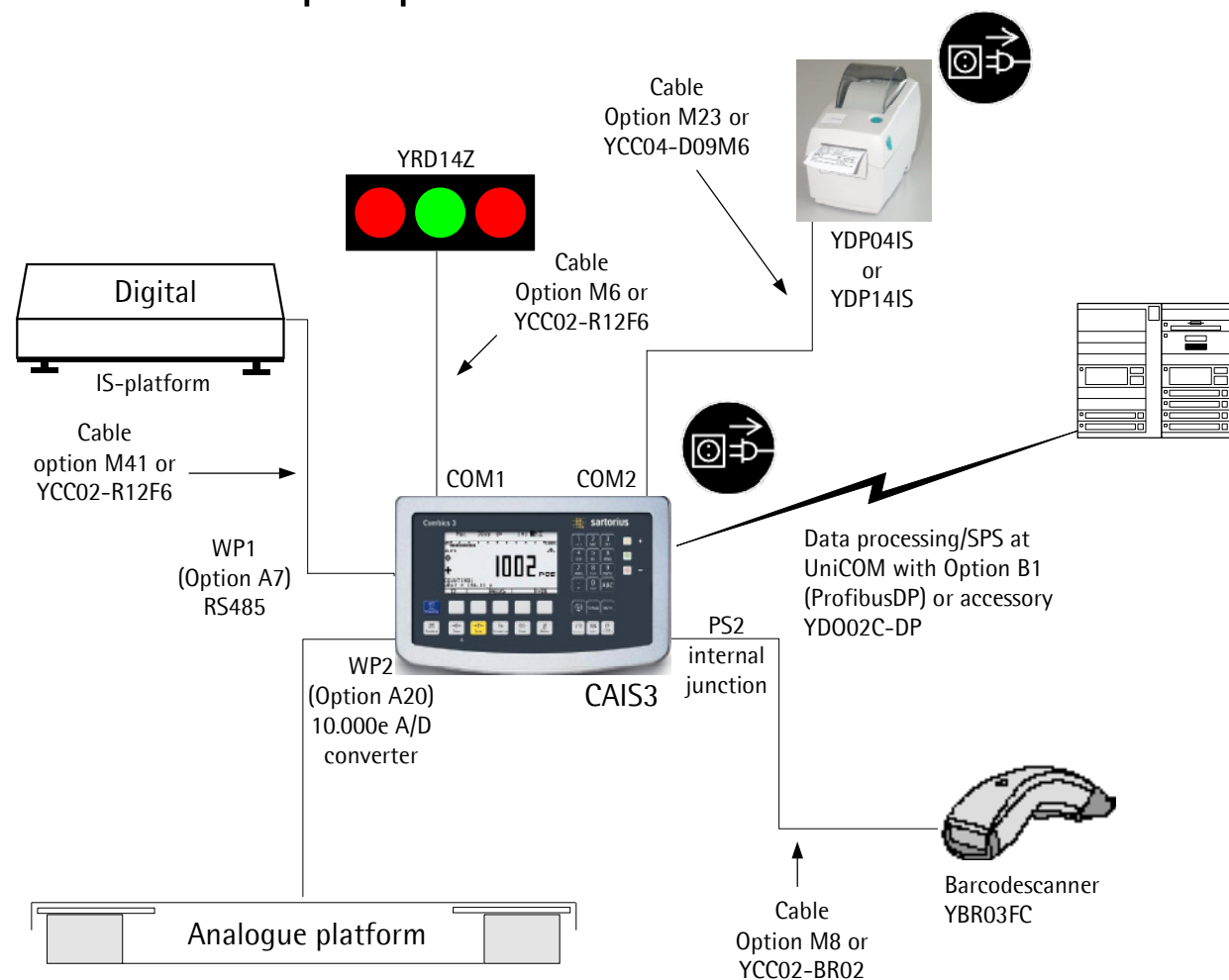
Counting with indicator CAIS2, two platforms and peripheral devices



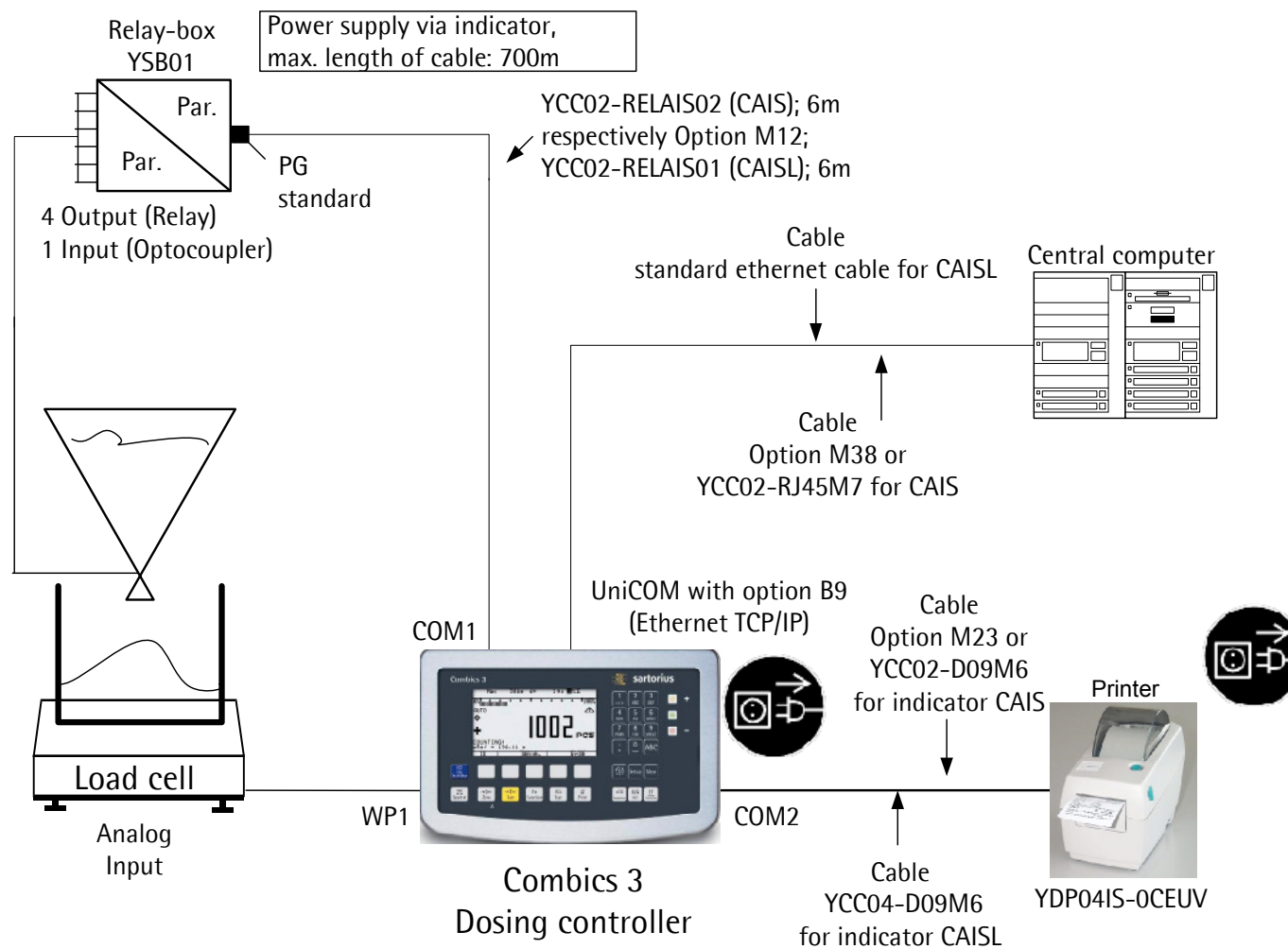
Counting with indicator CAISL3, two platforms and peripheral devices



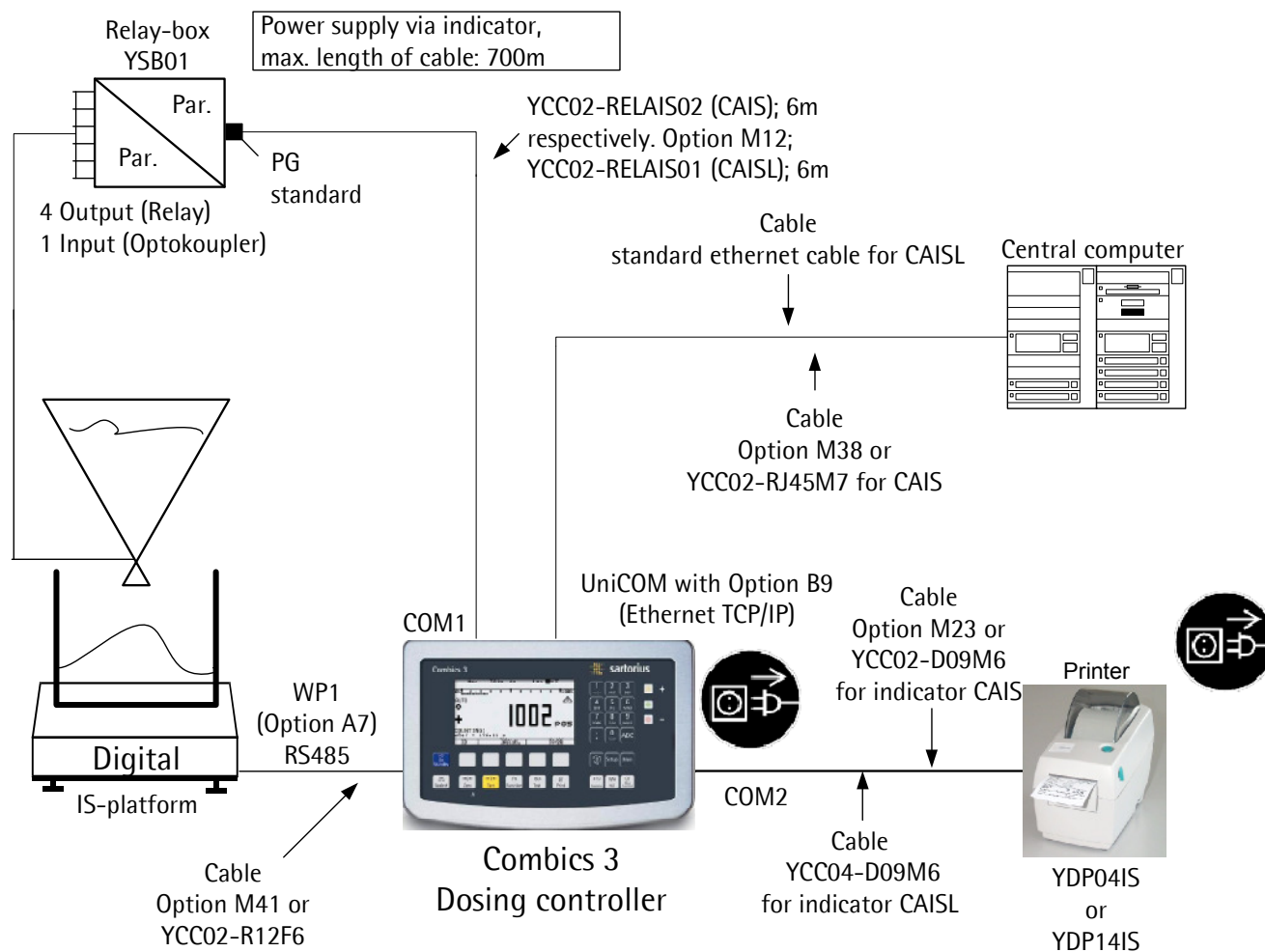
Counting with indicator CAIS3, two platforms and peripheral devices



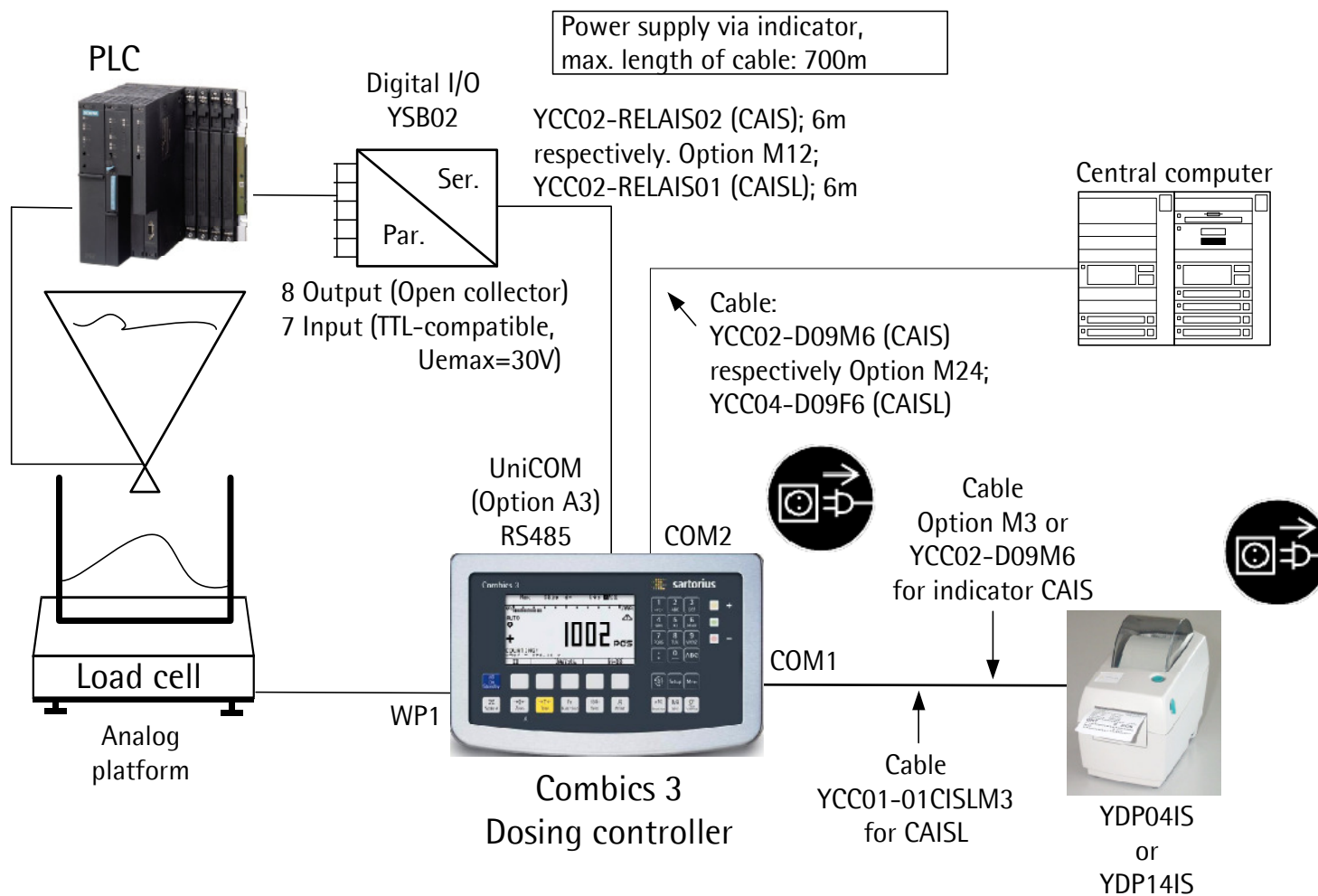
Combics 3 with application kit Filling Basic (Option H3), with load cell



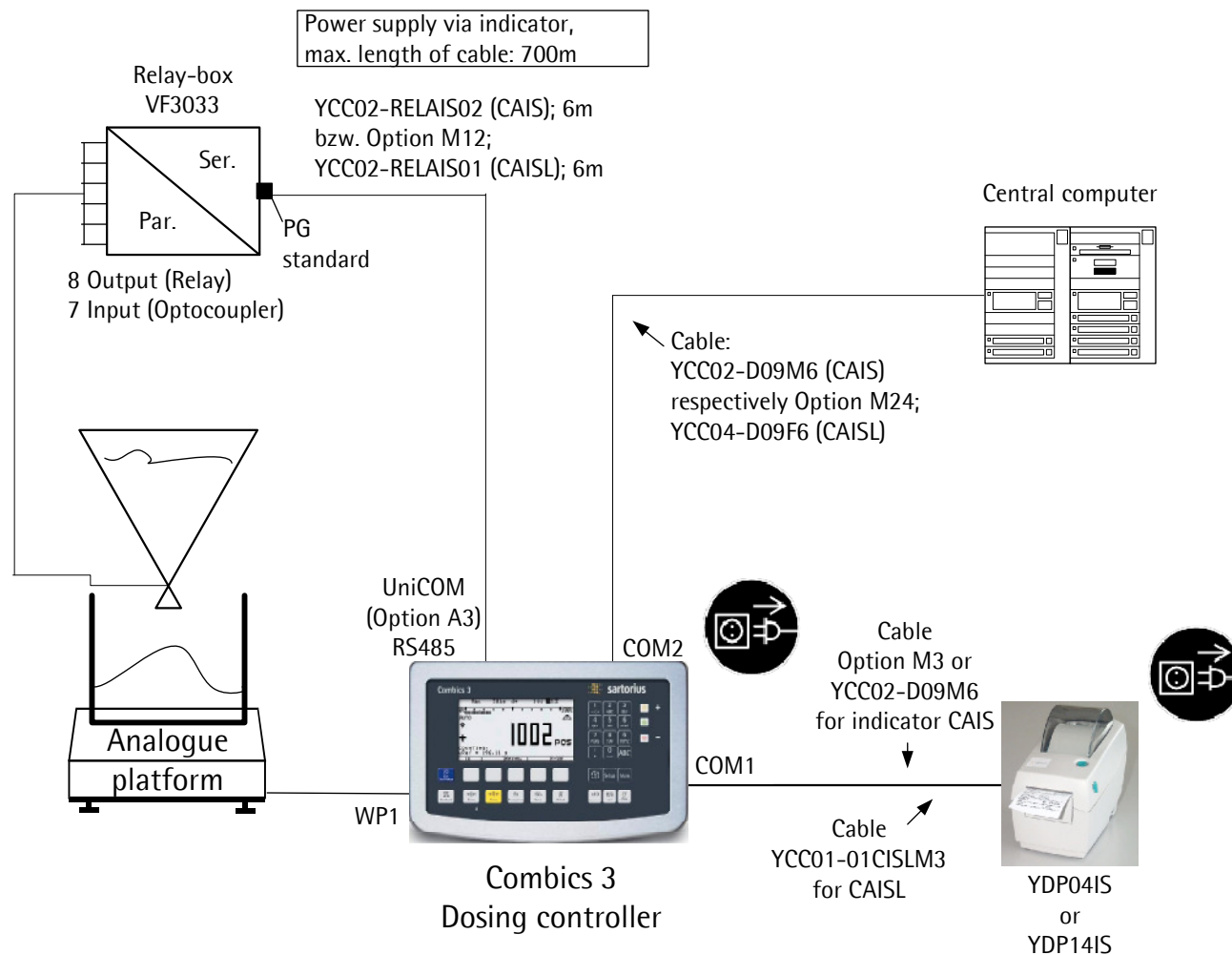
Combics 3 with application kit Filling Basic (Option H3), with IS-platform



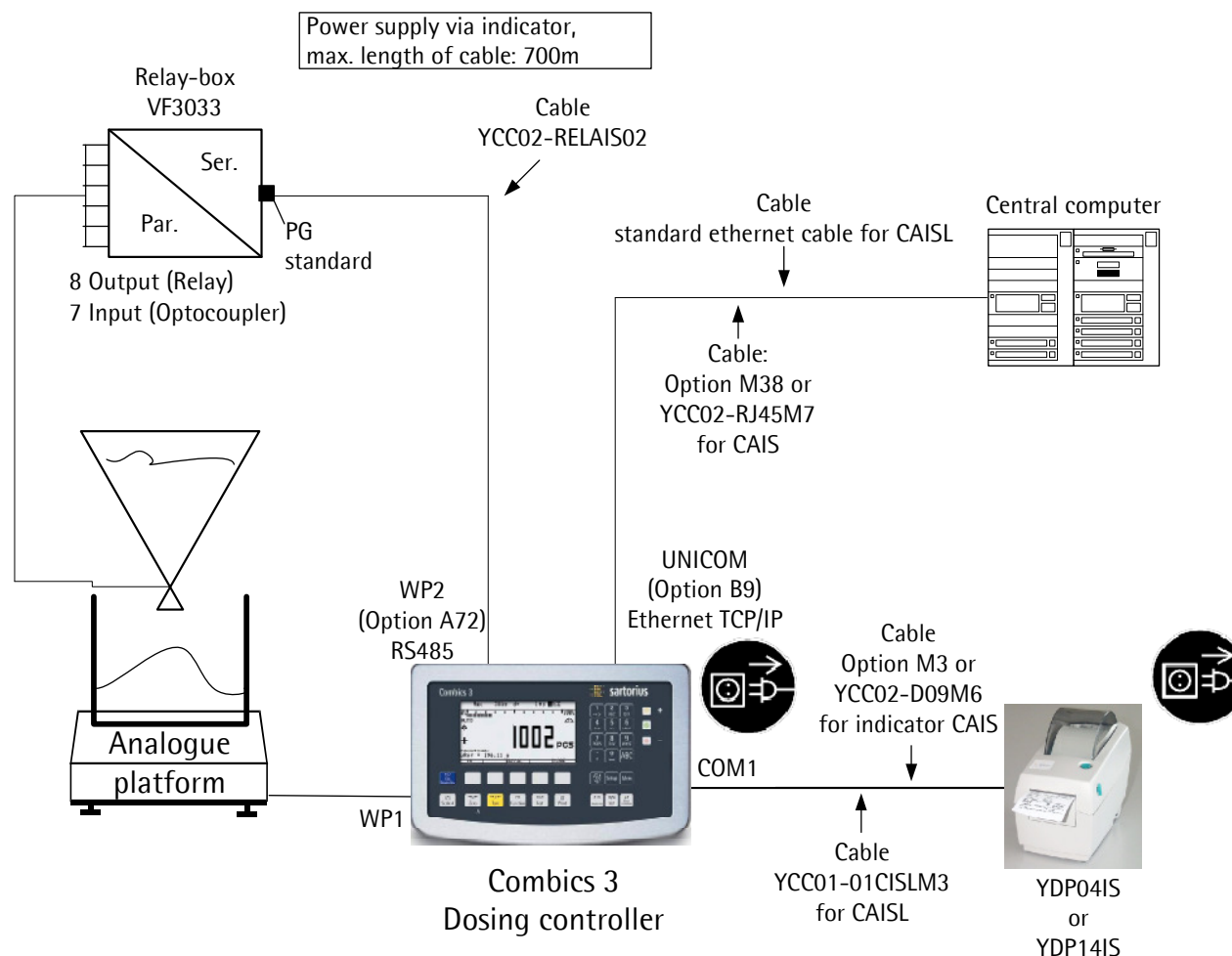
Combics 3 with application kit Filling Plus (Option H4), with load cell and YSB02



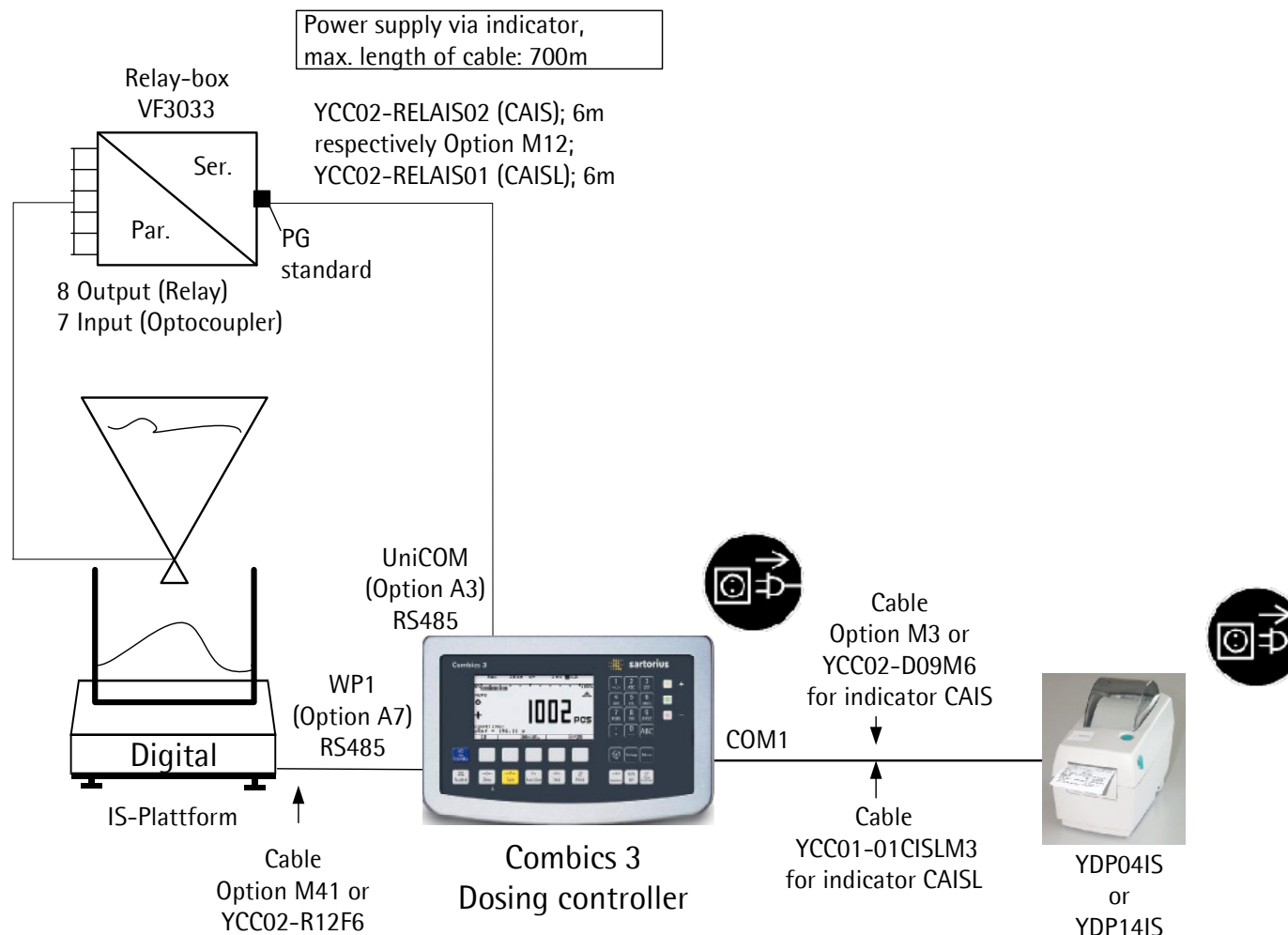
Combics 3 with application kit Filling Plus (Option H4), with load cell and VF3033



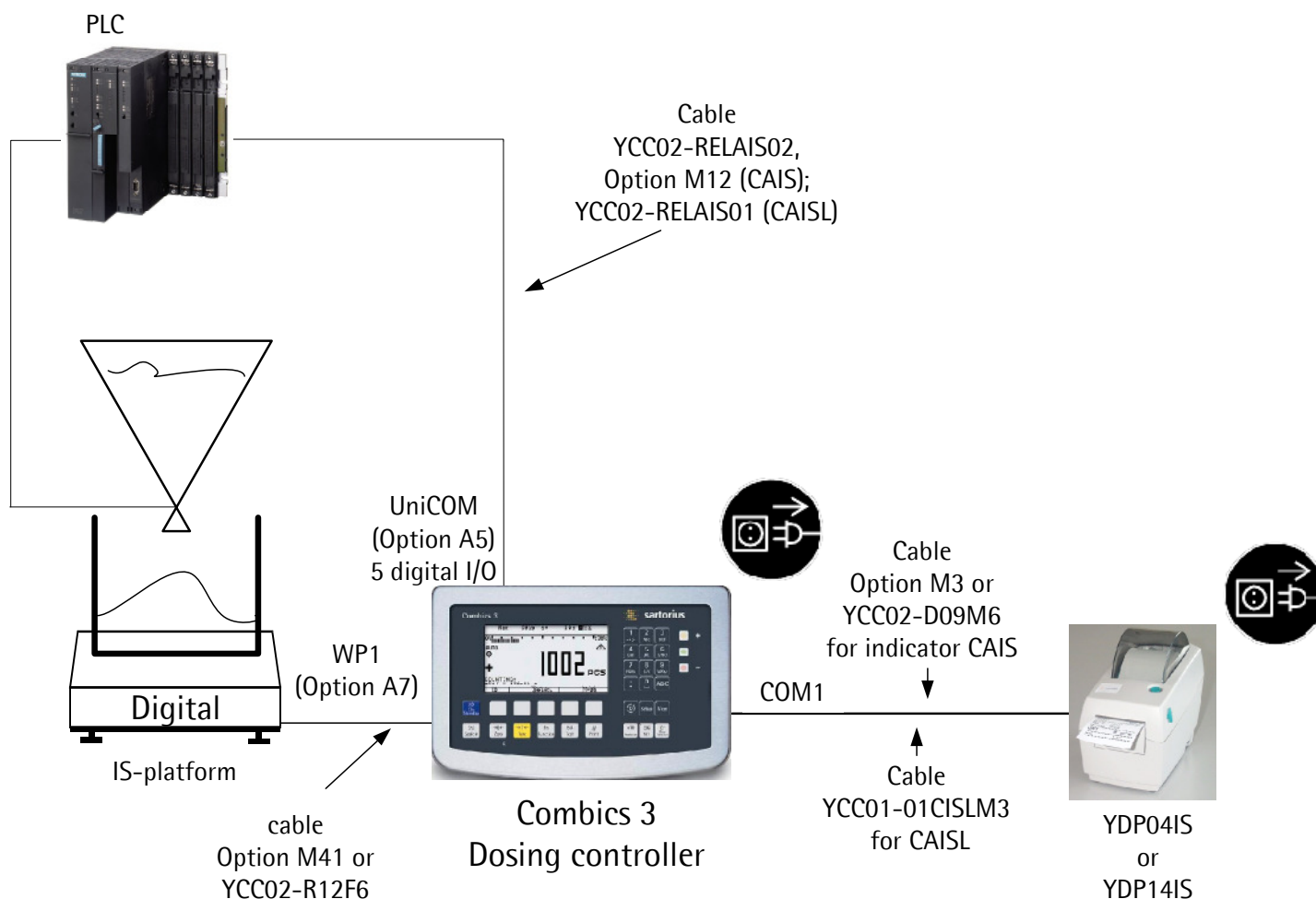
Combics 3 with application kit Filling Plus (Option H4), with load cell, VF3033 at WP2 and connection to central PC via Ethernet TCP/IP



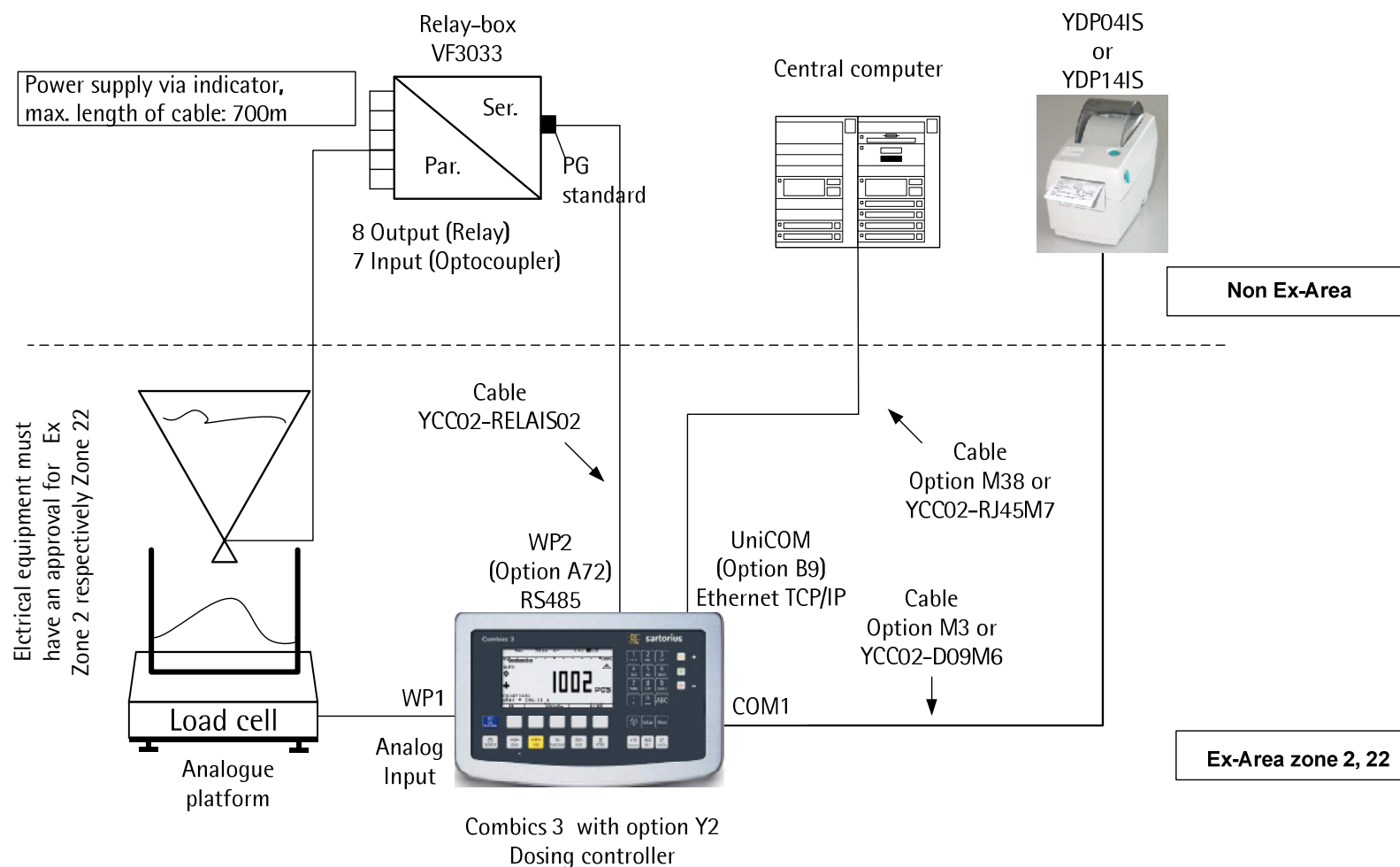
Combics 3 with application kit Filling Plus (Option H4), with IS-platform and VF3033



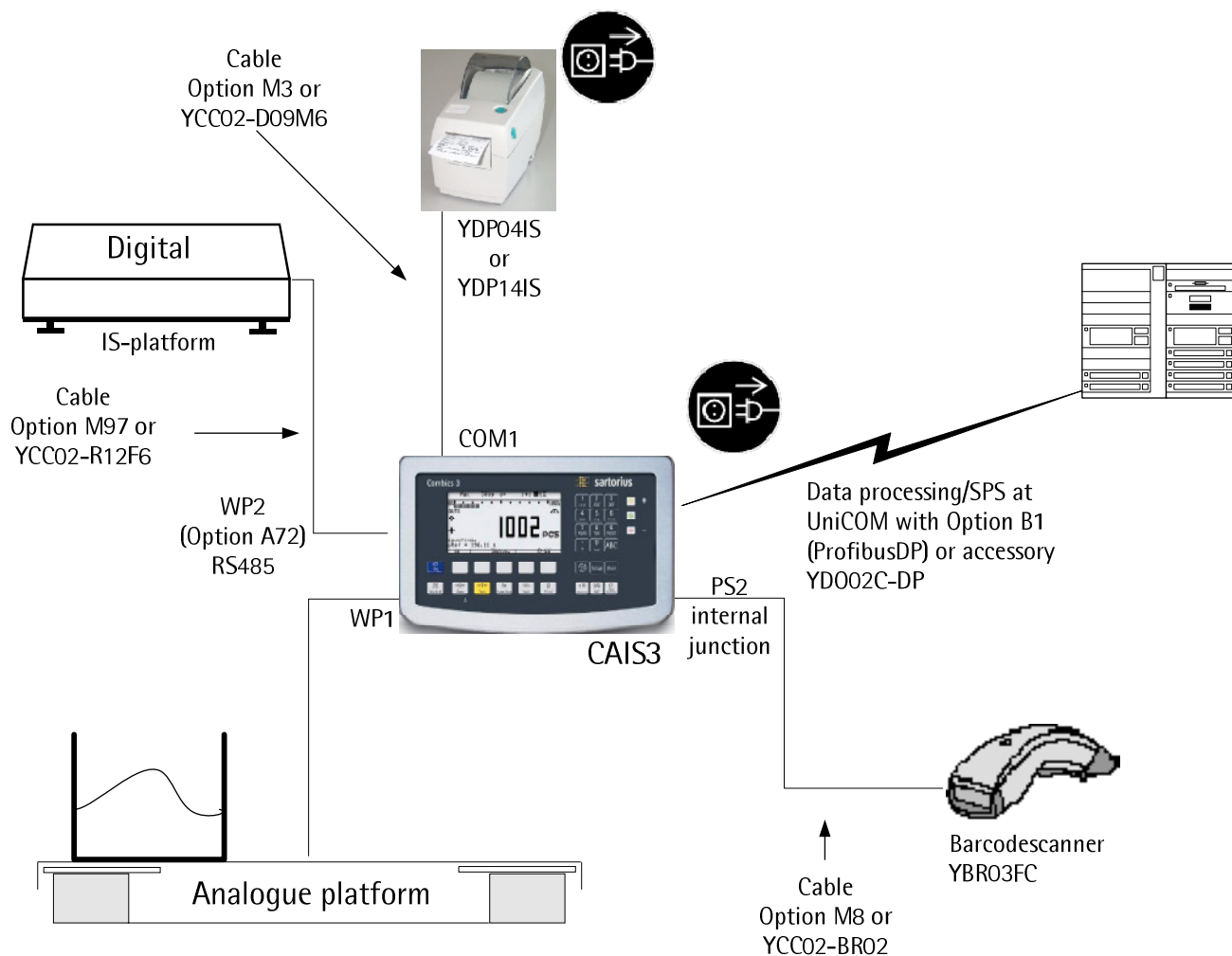
Combics 3 with application kit Filling (Option H3 or H4), with IS-platform and Digital I/O



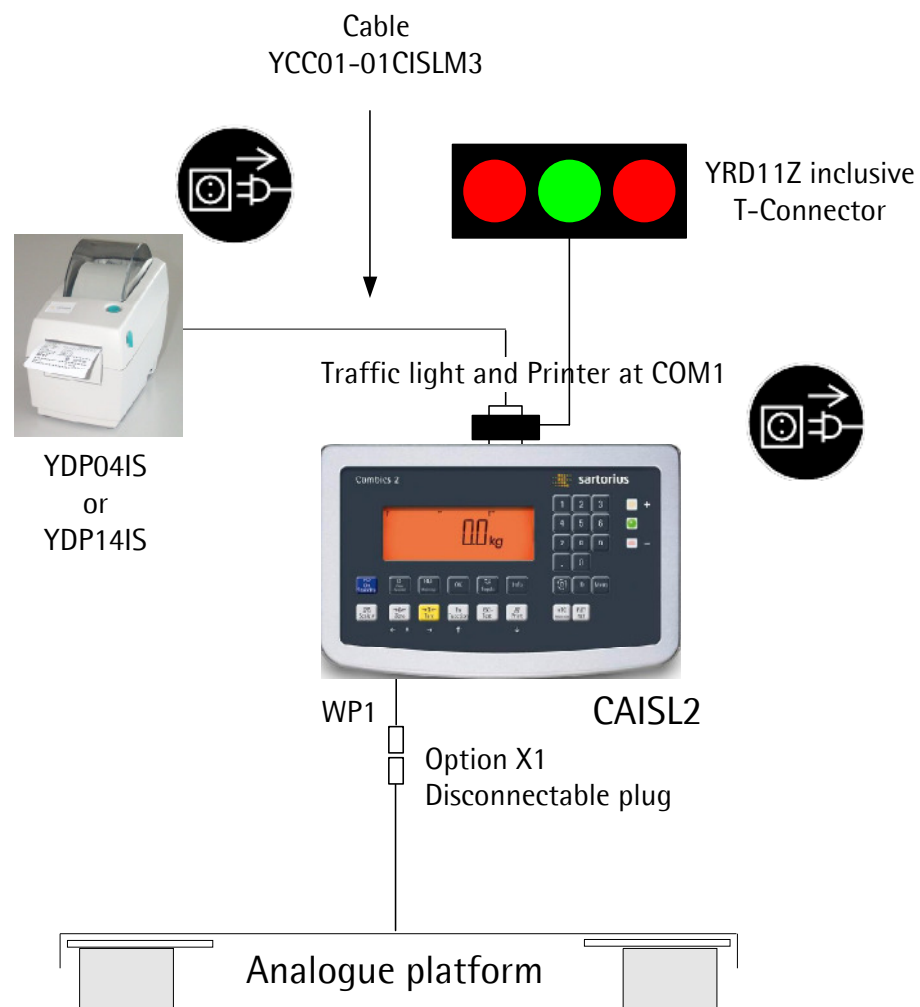
Combics 3 with application kit Filling Plus (Option H4), with load cell at 10.000e AD-converter (Option A10) in Zone 2/22 and VF3033



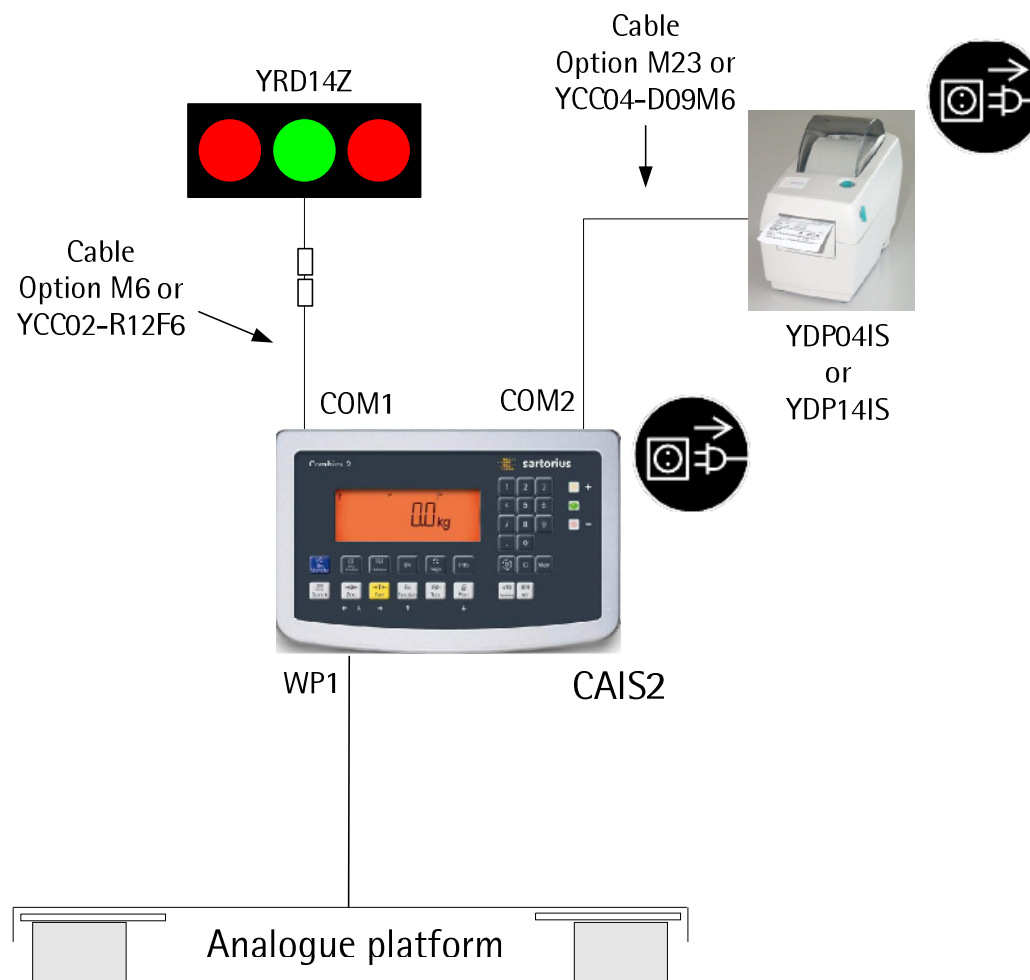
Incoming goods inspection Pharma/ Food with indicator CAIS3



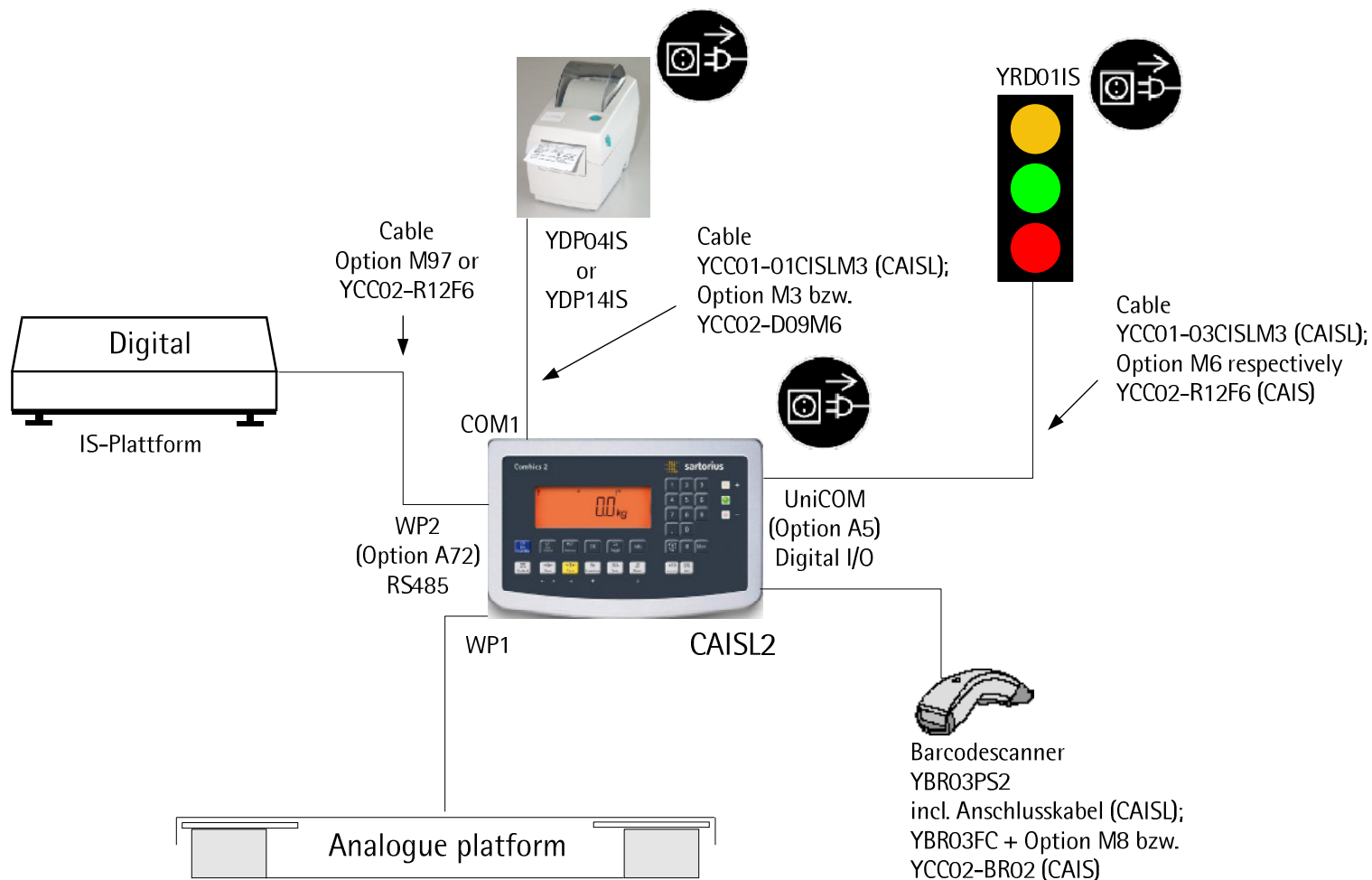
Checkweighing with indicator CAISL, with load cell



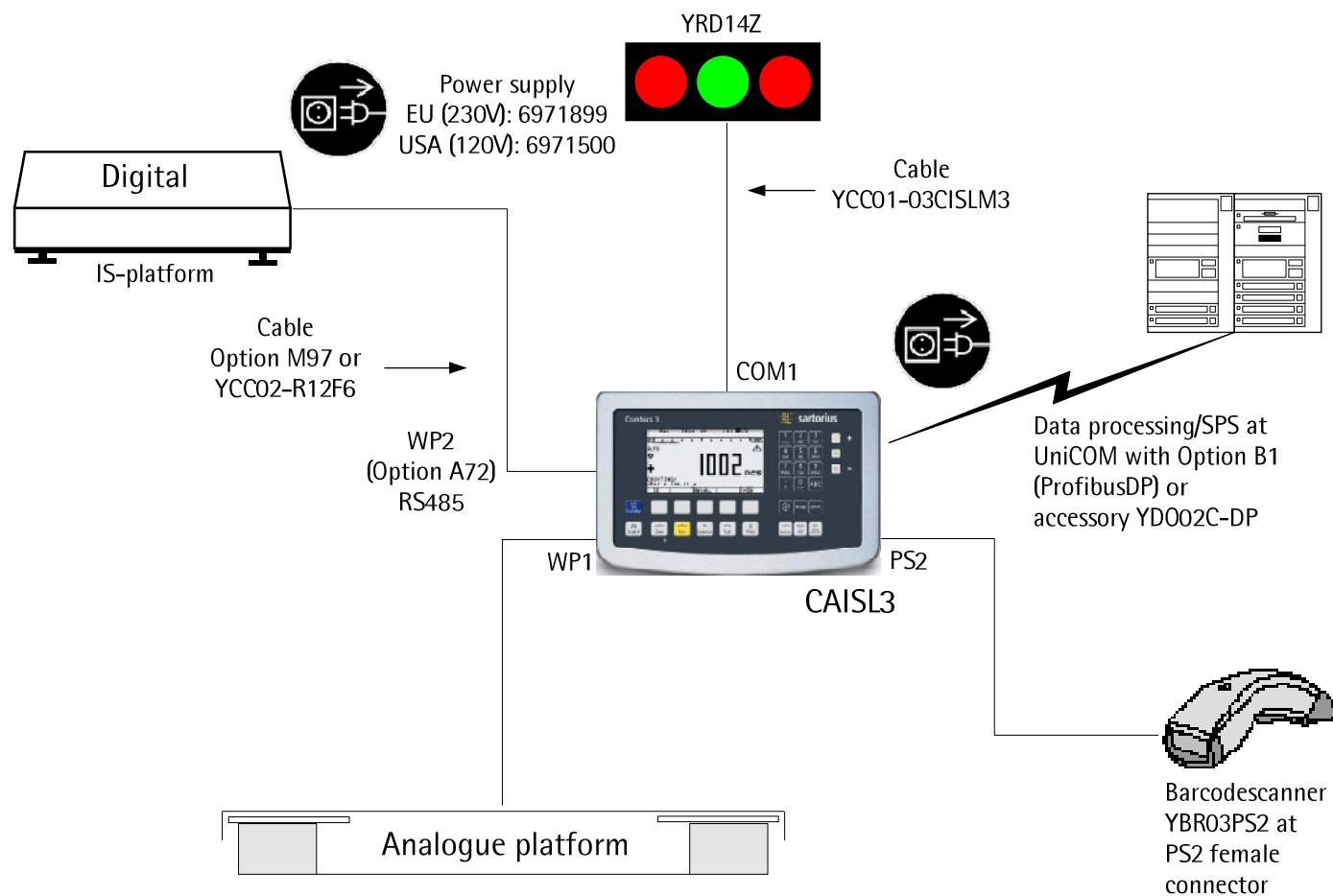
Checkweighing with indicator CAIS, with load cell and YRD14Z



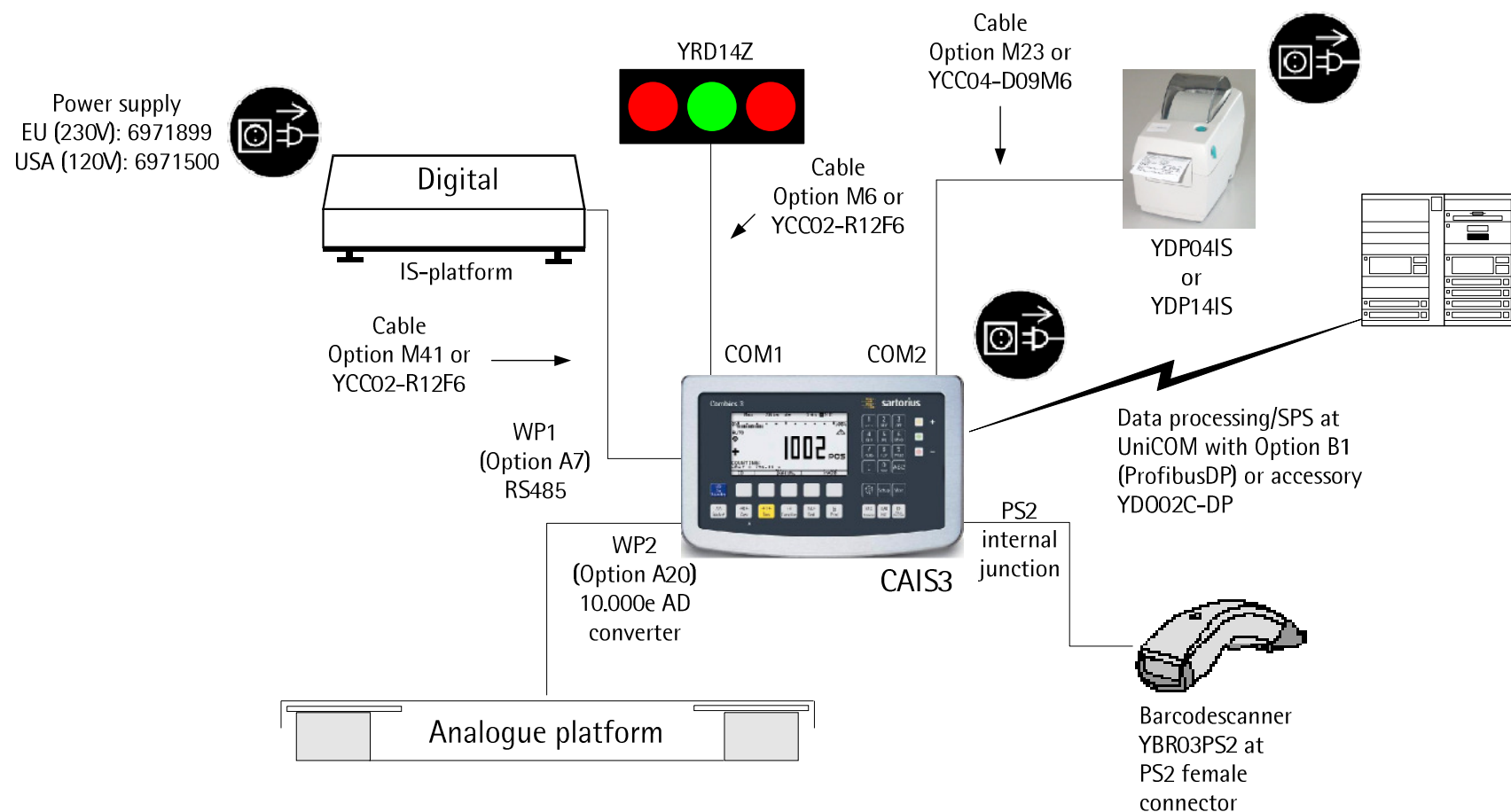
Checkweighing with indicator CAIS, with two platforms and YRD01IS



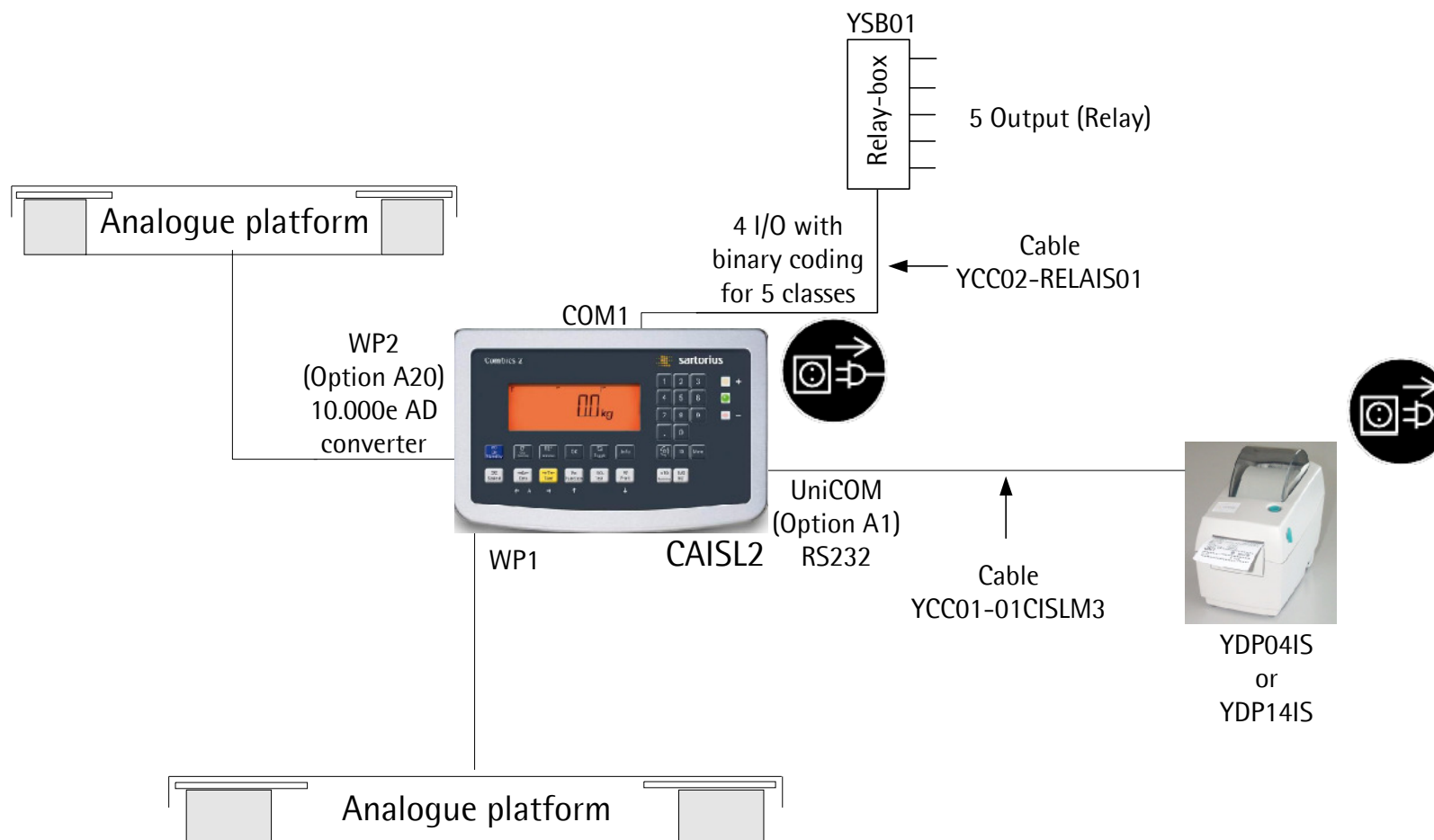
Checkweighing with indicator CAISL3, with two platforms and YRD11Z



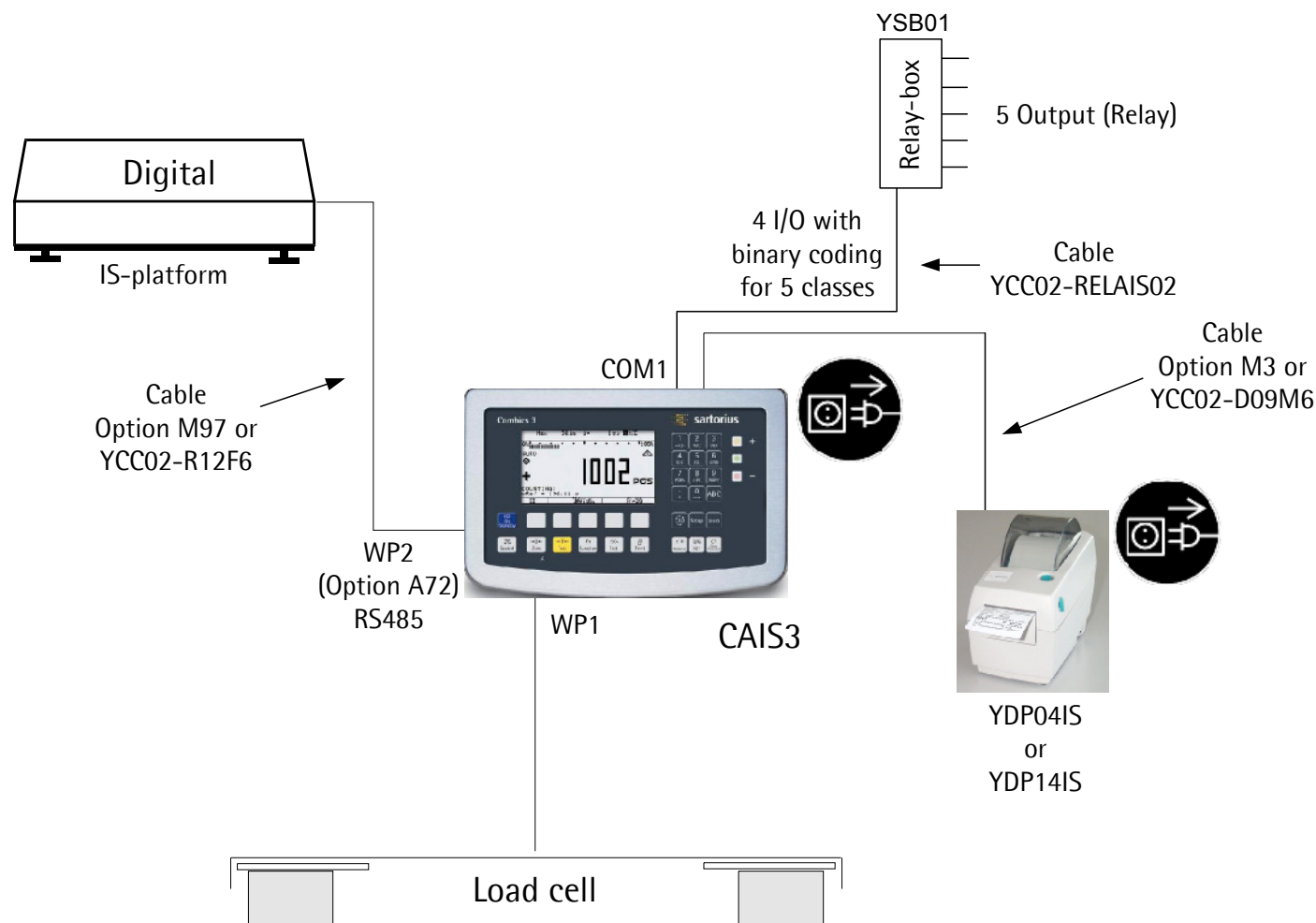
Checkweighing with indicator CAIS, with two platforms and YRD14Z



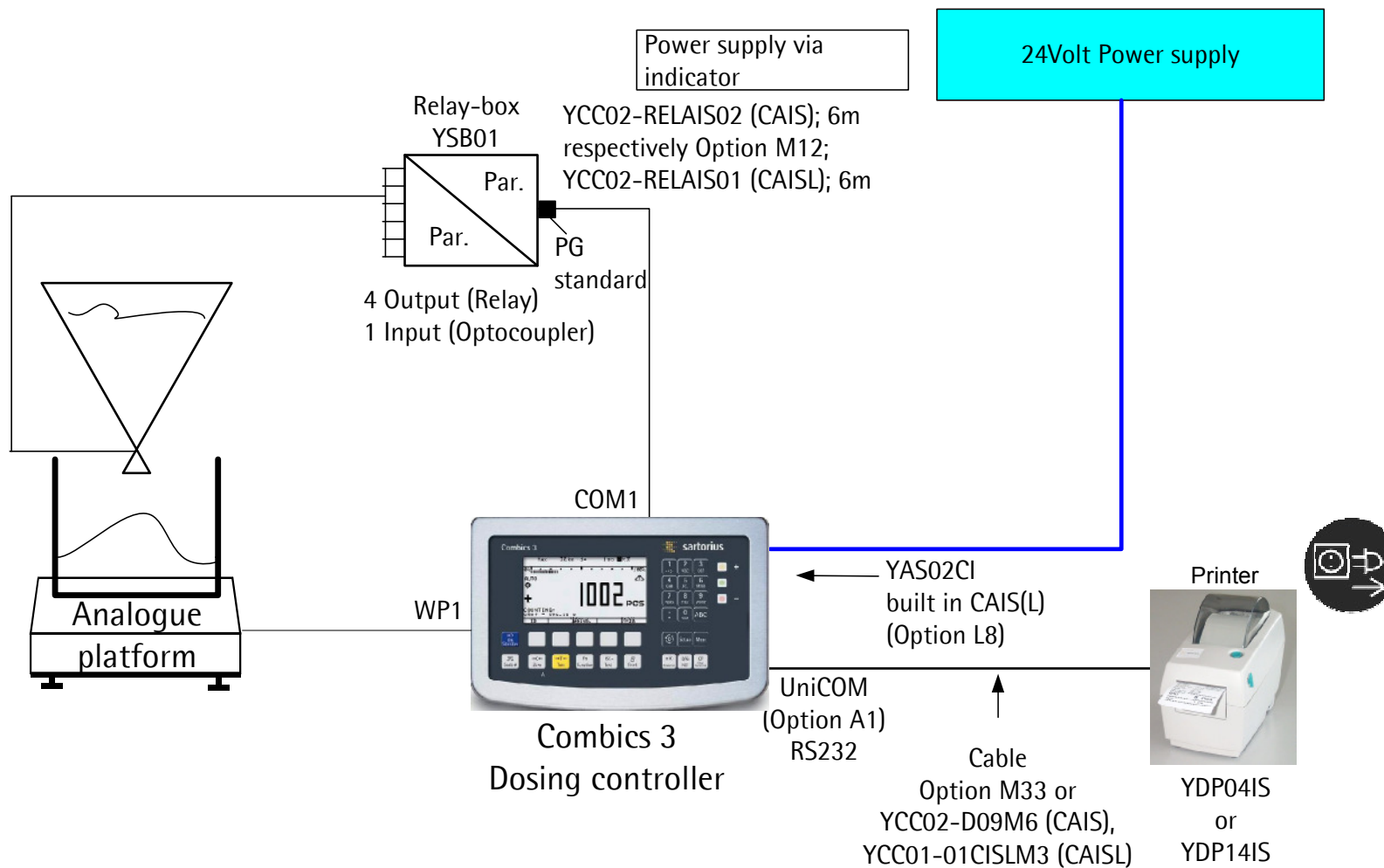
Classification with indicator CAISL



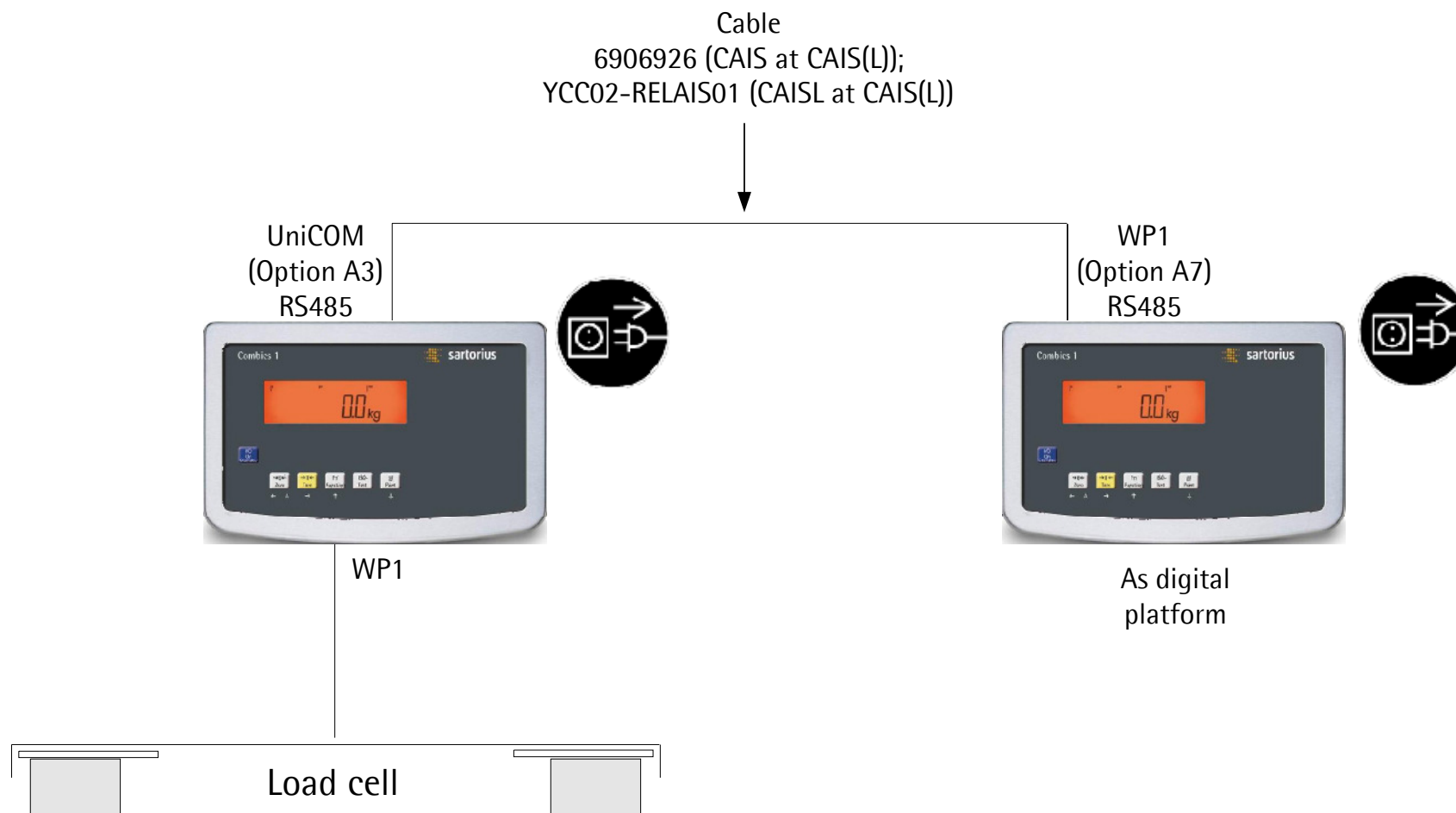
Classification with indicator CAIS



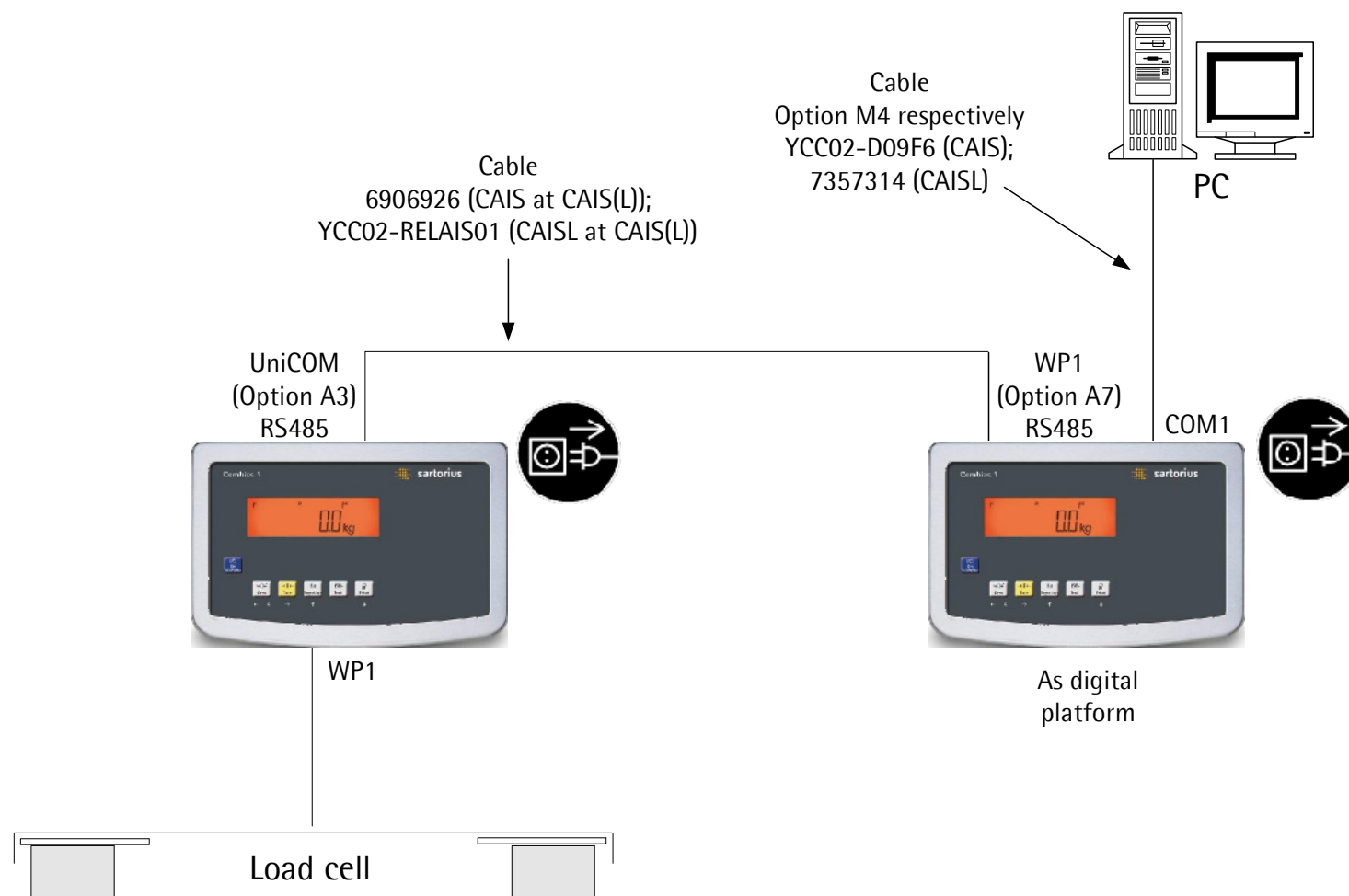
24 Volt – central power supply for indicator CAIS(L)



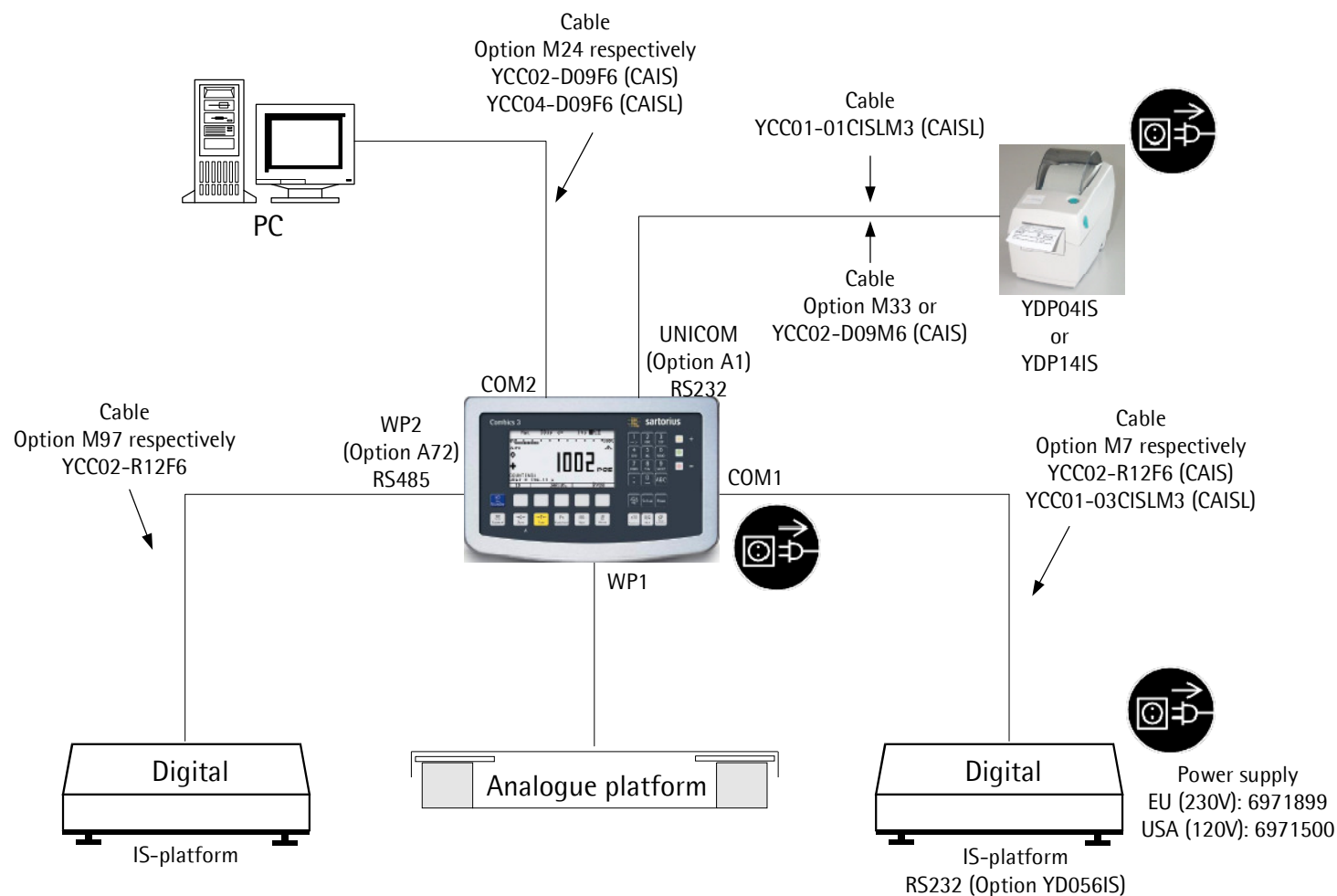
Combics with remote display in a distance of more than 12 meters



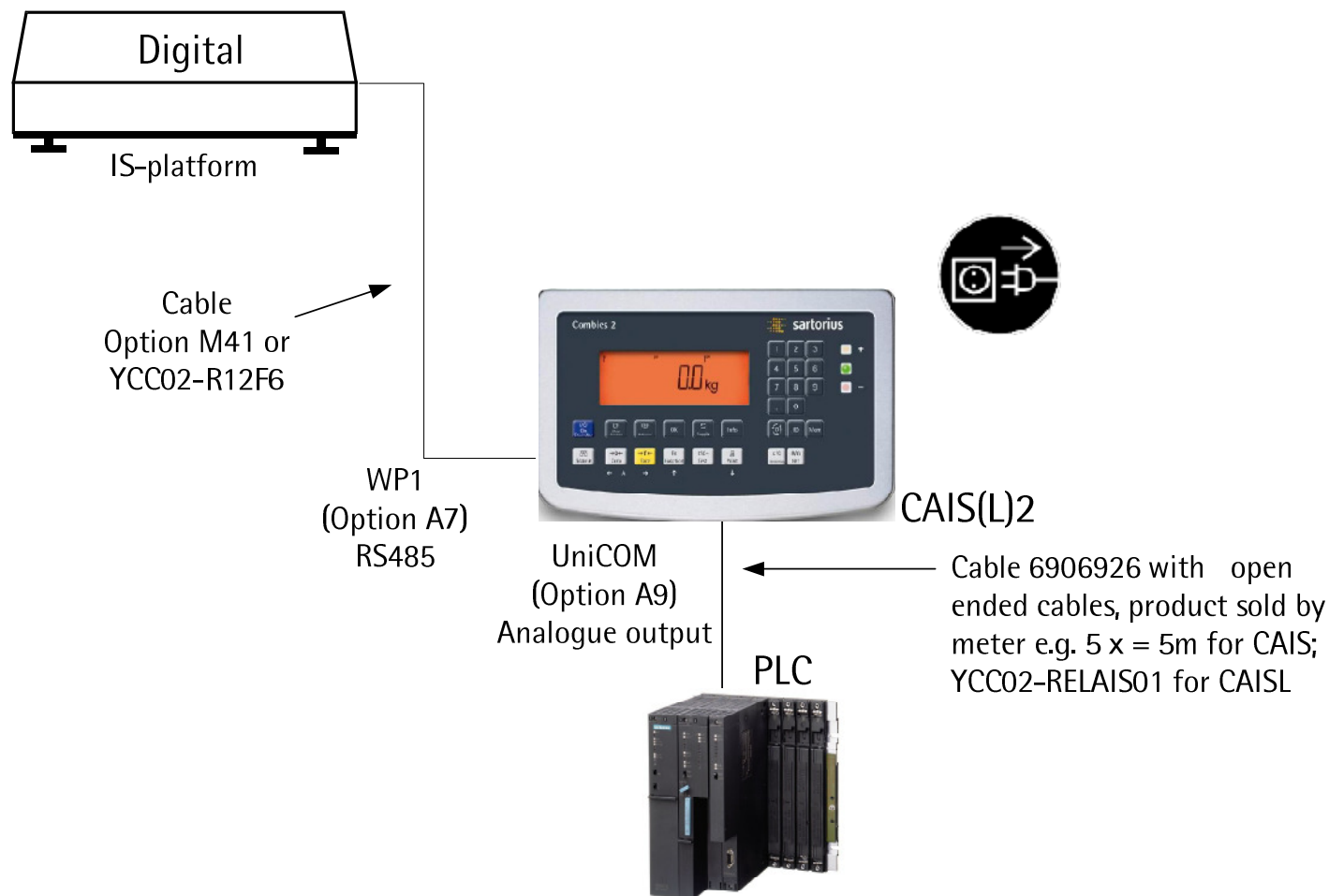
Combics with remote display and a PC in a distance of more than 12 meters



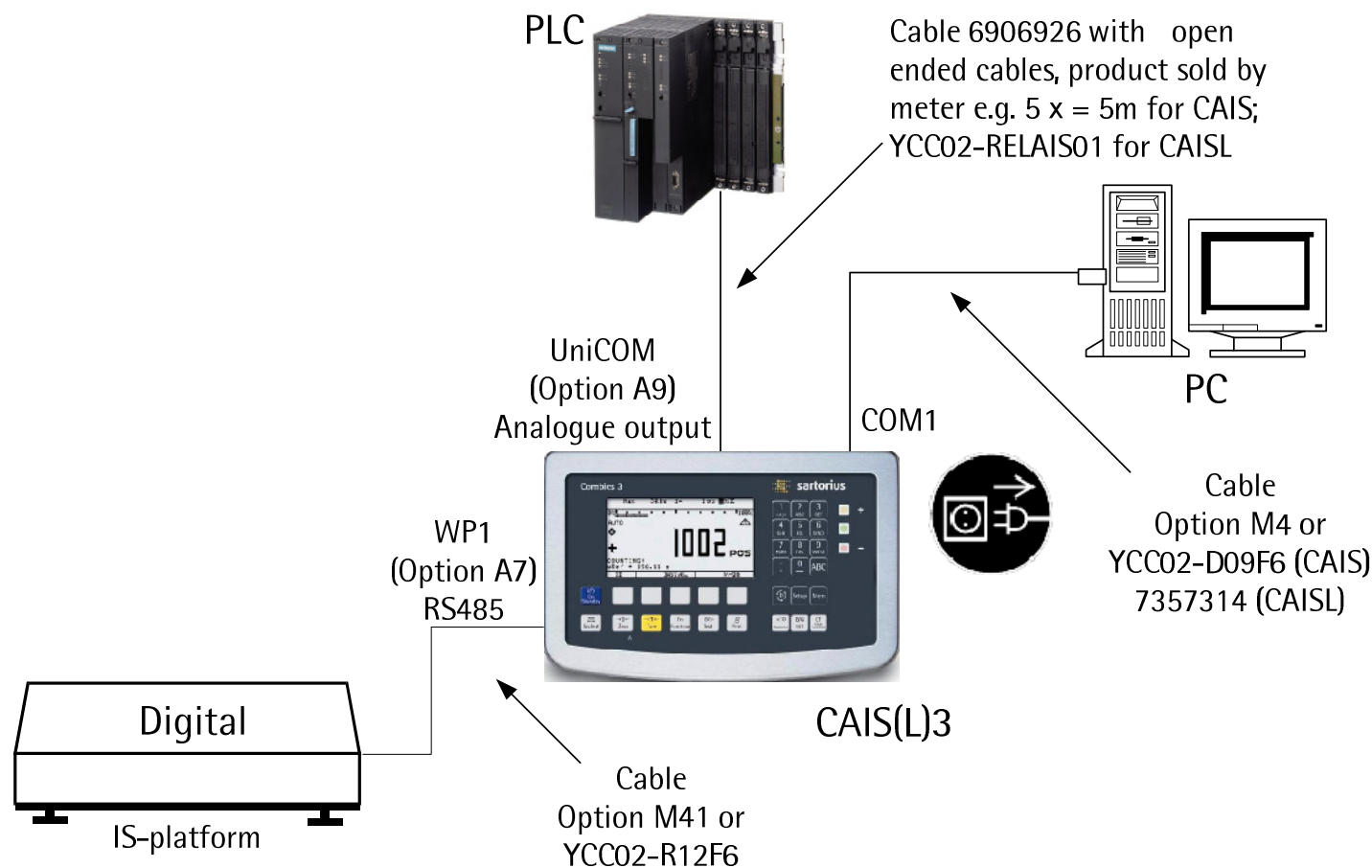
3 scales at indicator CAIS(L)3



Analog output (4-20 mA), with indicator CAIS2



Analog output (4-20 mA), with indicator CAIS3



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