Nellcor's OEM and Licensing Customers

Most monitoring systems manufacturers have standardized on *NELLCOR* sensors or offer this compatibility as an option.

OEM customers are companies that purchase pulse oximetry modules from Nellcor. They incorporate the modules into finished medical instruments that they have designed and produced. OEM customers currently include:

Airshields Inc.

Atom Medical Corporation
Baxter Healthcare Corporation

Bese Bioengenharia Sist.

Equipment S/A Century Medical Inc.

Colin Medical Instruments Corp. Corometrics Medical Systems

Critikon

Datascope Corporation

Datex

Digitrace Care Services

Dräger (Europe)

Dyne Argentina A.S.

EdenTec Fukuda Denshi

Ivy Biomedical

MDE (Medical Data Electronics)

Mennen Medical Inc. North American Dräger

Progresi

Protocol Systems, Inc. S & W Medico Teknik

Schiller AG

Sleeptrace/Areca Science

Synectics Witt Biomedical

Nellcor's licensing customers hold licenses under certain Nellcor patents that permit these companies to interface their oximeters with *NELLCOR* sensors. To facilitate this interface, Nellcor has provided these companies with certain information about its sensors and the signals transmitted by those sensors. Licensing customers design and produce the oximetry function in their oximeters. Licensing customers currently include:

Hewlett-Packard
Marquette Electronics

Siemens Medical Electronics

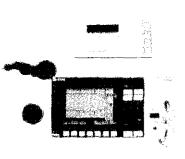
SpaceLabs

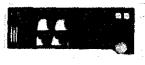
Please contact the individual company representatives for specific information on the compatibility of particular instrument models with particular *NELLCOR* sensor models.



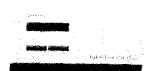


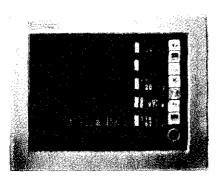


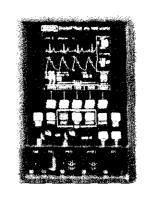








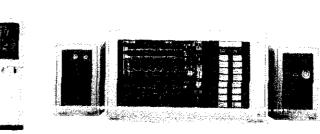




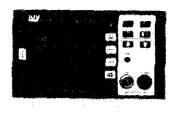




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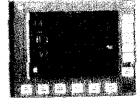




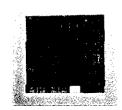


















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SIGNED LICENSEE AGREEMENTS

LIC	<u>ensue</u>	NELLCOR MANAGER	PRODUCTS IN MARKETPLAC
1.	HEWLETT-PACKARD	Bill Bednarski	Yes
2.	INVIVO	Bill Bednarski	Call Invivo
3.	MARQUETTE ELECTRONICS	Kay Lester	Yes
4.	SIEMENS MEDICAL ELECTRONICS	Bill Bednarski	Yes
5.	SPACELABS	Kay Lester	Yes

Customer should consult instrument manufacturer for compatibility of particular instruments and sensor models.

SIGNED OEM AGREEMENTS

	Signed Cem Ac	REEVIEN 15	BEAUTICE IN
,	OEM	NELLCOR MANAGER	PRODUCTS IN MARKETPLACE
1.	A & D COMPANY LIMITED	Bill Bednarski	No.
2.	ABBOTT LABORATORIES (Critical Care Div.)	Bill Bednarski	No
3.	AIRSHIELDS INC.	Kay Lester	No
4.	AMBRA S.C.R.L.	Bill Bednarski	No
5.	ATOM MEDICAL CORPORATION	Bill Bednarski	Yes
6.	BASCO CS LTD.	Bill Bednarski	No
7.	BAXTER HEALTHCARE CORPORATION	Kay Lester	Yes
8.	BESE BIOENGENHARIA SIST. EQUIP. S/A	Kay Lester	Yes
9.	CENTURY MEDICAL INC.	Bill Bednarski	Yes
10.	C.I.R.	Bill Bednarski	No
11.	COLIN CORPORATION	Bill Bednarski	Yes
12.	COROMETRICS MEDICAL SYSTEMS	Kay Lester	Yés
13.	DATASCOPE CORPORATION	Bill Bednarski	Yes
14.	DATEX	Kay Lester	Yes
. 1 5 .	DIGITRACE CARE SERVICES	Bill Bednarski	No
16.	DIMA ITALIA SAS	Bill Bednarski	No
17.	DRÄGER BEST	Kay Lester	Yes
18.	Dräger Lubeck	Kay Lester	Yes
19.	DYNE ARGENTINA A.S.	Kay Lester	Yes
20,	EDENTEC	Bill Bednarski	Yes
21.	FUKUDA DENSHI	Bill Bednarski	Yes

^{*} Customer should consult instrument manufacturer for compatibility of particular instruments and sensor models.

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SIGNED OEM AGREEMENTS

			PRODUCTS IN
	OEM	NELLCOR MANAGER	MARKETPLACE
22.	FUKUDA M-E KOGYO COMPANY	Bill Bednarski	No
23	HELLIGE GMBH	Bill Bednarski	No
24,	IVY BIOMEDICAL	Kay Lester	Yes
25.	JOHNSON & JOHNSON MEDICAL INC.	Bill Bednarski	Yes
26.	KOHKEN MEDICAL CO., LTD.	Bill Bednarski	No
27.	MEDICAL DATA ELECTRONICS	Kay Lester	Yes
28.	MENNEN MEDICAL INC.	Bill Bednarski	Yes
29.	NARCOSUL-APARELHOS CIENTIFICOS LTDA.	Kay Lester	No
30.	NASCOR PTY. LTD.	Bill Bednarski	No
31.	NORTH AMERICAN DRÄGER	Kay Lester	Yes
32.	PACE-TECH, INC.	Bill Bednarski	Yes
33.	PROGESI SRL	Bill Bednarski	No
34.	PROTOCOL SYSTEMS, INC.	Kay Lester	Yes
35.	PRYON CORPORATION	Kay Lester	Y (N6000)
j 6.	QUINTON INSTRUMENT COMPANY	Kay Lester	No
37.	S & W MEDICO TEKNIK	Kay Lester	Yes
38.	SCHILLER AG	Bill Bednarski	Yes
39.	SLEEPTRACE/ARECA SCIENCE	Bill Bednarski	Yes
40.	SYNECTICS	Kay Lester	Yes
41.	WITT BIOMEDICAL	Bill Bednarski	Yes

^{*} Customer should consult instrument manufacturer for compatibility of particular instruments and sensor models.

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Nellcor Puritan Bennett Sensors for Non-Nellcor Instruments

The following table indicates recommendations by oximetry instrument manufacturers as to which Nellcor Puritan Bennett ("NPB") oximetry sensors may be used with those manufacturers' instruments. These recommendations have been provided to NPB by the manufacturers of the instruments listed; NPB has collected this information for the use of NPB's employees and as a convenience for NPB's customers. The manufacturer of each instrument is responsible for determining whether that instrument is compatible with each NPB sensor model, and the manufacturer is also responsible for determining accuracy levels of its instruments when used with those sensors. A "Yes" indicates that NPB has received a written statement from the instrument manufacturer indicating that the manufacturer recommends that sensor for use with that instrument. A "No" indicates that the manufacturer has not provided NPB with a recommendation for use of that sensor with that instrument. This information is subject to change and the instrument manufacturer may have more current information. Please contact the instrument manufacturer for the latest information regarding compatibility for any sensor listed with a "No".

Two categories of manufacturers are listed:

A"Licensee Company is a company that holds a license under certain NPB patents. This license permits the company to make oximeters that interface with NPB sensors. To facilitate this interface NPB has provided these companies with certain information about its sensors and the signals transmitted by those sensors. The oximetry function in these companies oximeters is idesigned and produced by the Licensee Companies (or by their suppliers).

An "OEM Company" is a company that purchases internal modules that are designed and produced by NPB to calculate oxygen saturation. The OEM Company incorporates the modules into finished medical instruments that are designed and produced by the OEM Company. The OEM Company is responsible for assuring that the medical instruments properly use the modules so that the extinctry portions of the instruments operate properly.

Please Note: This information was the most recent information received from the OEM and Licensee Companies through the date of this chart. This information is subject to change and the OEM or Licensee Companies may have more current information. Before employing any of these instrument-sensor combinations in clinical use, the user should confirm this information with the OEM or Licensee Company who manufactures the instrument.

u	lc	cn	50	e	Co	m	p	a	ni	es

Company	Instrument	Model	1							Rer	comme'	nded N	SPB Sensors		***************************************			
	1			0	XISENS	SOR® I	1	 ,			ICLIQ®				1 .	1	OXI'	BUNDE
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			D25	D25L	D20		N25	R15	A	P	N	i	DURA-Y®	DYSE EARCLIP	DS100A	. RS10		P/I
Hewlett-Packara	Component Monitoring System	(Merlin)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No.	No*	No*	No.	Yes	1767
A Mari		78834C (Mickie)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No*	No*	No•	110.	Yes	Yes
Satura Saparak Sarah	Compact Configurable Monitor	78352C (Minishot)	Yes	Yes	Yés	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No ⁴	No*	No*	No*	Yes	Yes
garage Kalangan	Compact Configurable Monitor	78354C (Miracle)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No*	No*	No*	No*	Yes	Yes
(1)	CodeMaster XL Series	M1722x	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No'	No*	149.	No.	Yes	Yes
11. 1	CodeMaster XL Series	M1723x	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No*	No*	No*	No*	Yes	Yes
4 1.	CodeMaster 100	M2475B	Yes	Yes	Yes	Yes	Yes	Yes	Y'es) es	Yes	Yes	No*	No*	No*	No*	Yes	Yes
	Omnicare Component Monitoring System	N1175A/ M1176A (M1020A)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes .	Yes	Yes	No*	No*	No*	No*	Yes	Yes
77 (1)	C:nnicare Model 24	M1205A (M1020A)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No*	No*	No*	No*	Yes	Yes

Licensee Companies (Con't)

Company :	Instrument	Model								Reco	mmen	ded NP	B Sensors					
				O.	XISENS	SOR®I				OXIC	LIQ®						OXIB	AND®
11,	j		D25	D25L	D20	120	N25	R15	A	P	N	Ī	DURA-Y®	DYSE EARCLIP	DS100A	RS10	OXI- A/N	OXI- P/I
Hewlett-Packard	XM Series 50 Fetal Monitor	M1350B	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No•	No•	No*	No*	Yes	Yes
	Viridia Telemetry Sys	M2500	Yes	Yes	Y/=	Yes	Yes	Yes	Yas	Yes	V(=)	Yes	No.	N6*	No*	No.	Yas	YG.
Marquette .	Eagle -14	3000/4000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
	Tram	250,450,650 850,850SL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ym	Yes	Yes	Yes	Na	Yes	No	Yes	Yes
	Solar Sp02	7000/8000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
Siemons I	SaO ₂ /SpO ₂ Cartridge for Sirecust	400, 900, 1200	Yes	Yea	No	No	No	No	Yes	No	No	No	No	No	Yes	No	Yes	No
13/1	MicrO ₂		Yes	Yes	No	No	No	No	Yes	No	No	No	Yes	No	Yes	Yes	Yes	No
	Sirecust	732	Yes	Yes	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No
SpaceLabs		90351	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	Yes	Yes
1 1		90465/66/67	Yes	No :	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	Yes	Yes
Spile 4		90489	Yes	No	Yas	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	Yes	Yes

^{*} In general, Hewlett-Packard recommends their own reusable sensor line for those applications where a reusable sensor is desirable. The Oxiband sensors are the only NPB reusable sensors that Hewlett-Packard recommends for use with its instruments; Hewlett-Packard began recommending these sensors prior to Hewlett-Packard's introduction of its full family of reusable sensors.

OEM Companies

Company	Instrument	Model	}							Recon	nmen	ded NP	B Sensors]
ji .				OX	USENS	OR® II				OXIC	LIQ®						OXIB	AND®	
			D25	D25L	D20	120	N25	R15	A	P	N	I	DURA-Y®	DYSE EARCLIP	DS100A	RS10	OXI-	OXI- P/I	
A&D Company	Blood Press Monitor	TM2740/41	Yes	No	Yes	Yes	No	Yes	No	No	No	No	Yes	No	Yes	Yes	Yes	Yes	3
	w/Pulse Oximetry	TM2542/43	Yes	No	Yes	Yes	No	Yes	No	No	No	No	Yes	No	Yes	No	Yes	Yes]
Bese	Monitor	BIO4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes];
	Monitor	BIO-7	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	
Corometrics	556 Monitor	w/5569AAX module	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	
	Maternal/Fetal Montr	118	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
4	Infant Monitor	510	Yes	Yes	Yes	Yes	Yes	Yes	Yಱ	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes]
	Infant Monitor	511 .	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes];
Datascope	Passport	w/NPB module	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	No	No	
Dalex	M-NSAT	AS/3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	Yes	Yes	
Dräger Lübeck	OXISAT	II	Yes	Yes) es	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes].
1	CICERO	EM	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	
	PM	8050	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	_ .
	CAPNOSAT		Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes]

OFM	Comp	anine	(Con'f)
UEM	t.omn	anies	и.м. и

OEM Companies (Co								·				1 3 7 7 3) C.					
Company	Instrument	Model			//CE) //	1000 11						ed NY	3 Sensors				OVID	AND®
'					KISENS			7.7	<u> </u>	OXIC		· · ·	DUD 4 V6	DVCC	DS100A	RS1	OXI-	OXI-
*45		·	D25	D25L	D20	120	N25	R15	Α	P	N	Ī	DURA-Y®	DYSE EARCLIP		0	Α⁄N	PЛ
Dyne Argentina	MCD-300	01 S7	No	No	No	No	No	No	No	No	No	No	Yes	No	Yes	No	Yes	Yes
1	MCD-300	02 87	No	No	No	No	No	No	No	No	No	No	Yrs	No	Yes	No	Yes	Υes
7,7	MCD-300	07 S7	No	No	No	No	No	No	No	No	No	No	Yes	No	Yes	No	Yes	Yes
., ,	MCD:300	09 S7	No	No	No	No.	No	No	No	No	No	No	Yes	No	Yes	No	Yes	Υes
Fukuda Denshi	DS-2000	DS-2120	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes
	DS-3000	HG-302	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yea
Fukuda M-E	ECG.	a-1200	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes
Ivy Biomedical	Mordor	705	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	Yes	Yes
	Monitor	706	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	Yes	Yes
	Monitor	405A	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No .	Yes	Yes
1	Monitor	405D	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	Yes	Yes
JJMI/Critikon	DINAMAPIN PLUS	9700 Series	Yes	No	Yes	Yes	Yes	No	Nö	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	Select		Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
MDE	Escort	100& 100T	Yes	Yes	Υes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	N/A*	Yes	Yes	Yes	Yes
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Escort #	300A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	N/A*	Yes	Yes	Yes	Yes
7.0	Escort II Multiparemtr	20001	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	N/A*	Yes	Yes	Yes	Yes
7, 11	100 & 300 Module																	
	Escort 💆	Prism™	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No ·	Yes	No	Yes	Yes
Cit the	Lscort	Prism™-GL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Yes
N. A. Drager	Harkomed 🚟	3	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	No	No
1 1.1	! larkomed	4	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	No	No
	vitalert	1000	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	No	No
1 /	Vitalert	3000	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	Nó	Yes	No	No	No
Progesi SRL	Vitatele System	•	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No
Protocol	PROPAQ Encore	202	Yes	Yes	Υæ	Yes	Yas	Yos	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
4. 八	PROPAQ Encore	204	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
1 1	PROPAQ Encore	206	Yes	Yes	Yස	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No ;	Yes	Yes	Yes	Yes
	PROPAQ	102	Yes	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No	Yes	Yes	No	No
3	PROPAQ	104	Yes	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No	Yes	Yes	No	No
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROPAQ	106	Yes	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No	Yes	Yes	No	No
Quintoa Instr	Vital Statistics System	000394	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yos	Yes	Yes	Yes
S&W / ARTEMA	DIASCOPE	NT	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	No	Yes	Yes
	SpO2 Mod - Athena	9267	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	No	Yes	Yes
	Cardio-Aid	MC, MC+	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	No	Yes	Yes

OEM Companies (Con't)

Company	Instrument	Model		Recommended NPB Sensors														
				OXISENSOR® II						OXICLIQ®							OXIB	AND®
Ţ,			D25	D25L	D20	120	N25	R15	Α	P	N	I	DURA-Y®	DYSE EARCLIP	DS100A	RS10	OXI- A/N	OXI- P/I
Synectics/ Meditronic	MicroSleep		Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	No	No	No	Yes	Yes
Vivisol S.r.L.	OXYTEL	M32	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Y⇔	Yes
Welch Allyn	Vital Signs Monitor		Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Witt Biomedical	Series II, III, IV & V		No	No	No	No	No	No	No	No .	No	No	No	No	Yes	No	No.	No

Additional Licensee and OEM Companies

Please note that the above table does not include all of our Licensee Companies & OEM Companies. NPB has requested comparable information from our other Licensee & OEM Companies and we are in the process of collecting the information. As we receive information from additional companies, we will be updating the table and the updates will be available through NPB sales representatives or Technical Service. In the interim, please consult the list below which contains our current Licensee & OEM Companies who are not listed in the table. Please consult these companies for information concerning which sensor models they recommend for use with which instrument models.

Additional OEM Companies

Abbott Laboratories (Critical Care Div.)

Advanced Medical Devices Advanced Medical Systems

Airshields Inc. Ambra S.C.R.L.

Atom Medical Corporation

Artema Monitoring

Basco CS Ltd.

Century Medical Inc.

CII Trading Corporation

C.I.R.

Colin Corporation

Dima Italia sas

Drager Best

Electrona SA

Hypoxia Medical Ltd./G.C.L.

Indigenous Systems

Kohken Medical Co., Ltd.

Additional Licensee Companies

Invivo

Kontron Instruments, Ltd.

Larsen & Toubro Limited

Marquette-Hellige GMBH

Medical Invest Svenska/Ortivus

Mennen Medical Inc.

Metrax GMBH

Narcosul-Aparelhos

Nascor Pty. Ltd.

NEC Corporation

Neutec Company

Nihon Kohden Corporation

Nissei

Oridion formerly Spegas Industries

Oxford Instruments

Schiller AG

Technologia Electronica Brasileira Ltda.

Telefactor Corporation

Vital Instruments

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