

*Direct to the
right choice*

Neonatal Electrodes



COVIDIEN

positive results for life™

Experts on electrodes

Our complete range of high-quality electrodes offers options for all applications. We can help you select the right electrode for your specific purposes.



Covidien recommends...

Limb band neonatal electrode

Conductive surface 25x50mm

Key highlights

- Wraps around neonate limbs, straps with Velcro fastenings
- Reduces pressure on, and allows better access to trunk (chest)
- Soft cloth backing
- Prewired with AAMI colour-coded lead
- 60cm lead



Further details

- Full surface hydrogel – underside of electrode coated with conductive, adhesive hydrogel
- No adhesive means electrode is non allergic and repositionable
- AAMI colour coding (black, green, white)
- 60cm long integrated leads
- Cloth is breathable, for lower skin irritation, and is soft and elastic, so gently conforms to body contours
- High quality Ag/AgCl sensor
- 1.5mm DIN safety connector

Product	Order Code	PC/Pouch	PC/Box	PC/Carton
Limb-Band	EP30016	3	-	300

Covidien recommends...

KittyCat neonatal electrodes

Key highlights

- Full surface conductive, adhesive hydrogel
- Cloth or foam backing
- 60cm long integrated leads
- Prewired with AAMI colour-coded leads (plus one IEC lead option)
- 1.5mm DIN safety connectors



Further details

- Radiolucent carbon leads – no need to change electrodes for x-ray testing
- Also available with metal leads (not radiolucent)
- Cloth backing is breathable, for lower skin irritation, and is soft and elastic, so gently conforms to body contours
- Foam backing is durable and impervious to fluids
- Full surface hydrogel – no adhesive means electrode is non allergic and repositionable for optimal placement
- High quality Ag/AgCl sensor

Product	Details	Order Code	PC/Pouch	PC/Box	PC/Carton
KittyCat 1050	Ø 25mm, cloth, AAMI leads, metal eyelet	31424768	3	-	300 (100x3)
KittyCat 1051	Ø 30mm, cloth, AAMI leads, metal eyelet	31424735	3	-	300 (100x3)
KittyCat 1052	Ø 25mm, cloth, AAMI leads, carbon eyelet	31424743	3	-	300 (100x3)
KittyCat 1053	Ø 30mm, cloth, AAMI leads, carbon eyelet	31424719	3	-	300 (100x3)
KittyCat 4203	Ø 22mm, foam, IEC leads, metal eyelet	31368072	3	-	300 (100x3)
KittyCat 4103	Ø 22mm, foam, AAMI leads, metal eyelet	30710001	3	-	300 (100x3)
KittyCat 4105	22x30mm, foam, AAMI leads, metal eyelet	31086575	3	-	300 (100x3)

Covidien recommends...

Kiddy neonatal electrodes

Key highlights

- Ideal for incubators
- Clear gel can withstand high humidity
- Prewired with IEC colour coded/white leads
- Micropore backing
- 1.5mm DIN safety or 4mm plug connectors
- H87PG/F good option for MFEIT imaging



Further details

- Superior adhesiveness, yet gentle on skin – allows use of electrodes for up to 3 days
- Full surface conductive, adhesive hydrogel – no adhesive means electrode is non allergic and repositionable
- Micropore backing is breathable, for lower skin irritation, and conforms to body contours
- High quality Ag/AgCl sensor

MFEIT imaging

Electrical impedance tomography (EIT) has some advantages over X-ray or MRI for imaging lung function in neonates; in particular, neonate lung functionality can only be viably assessed through EIT.

Six different electrodes were tested in a comparison study, to identify the optimum type for multi-frequency EIT (MFEIT). Measurements were taken on the back of the forearm of six healthy adult volunteers. No skin preparation or abrasion was used.

The H87PG/F electrode gave the lowest impedance between 10 and 400 kHz (range 1.1–1.7 Ohms), suggesting it is a good option for using with MFEIT systems.

Rahal M *et al.* A comparison study of electrodes for neonate electrical impedance tomography. *Physiol Meas* 2009; 30:S73-S84

Product	Details	Order Code	PC/Pouch	PC/Box	PC/Carton
Kiddy H207PG/F	30x22mm, 60cm IEC leads, DIN socket	31.5072.03	3	120 (40x3)	2880 (24x120)
Kiddy H87PG/F	Ø 30mm, 60cm IEC leads, DIN socket	31.5872.04	3	120 (40x3)	2880 (24x120)
Kiddy H203PG	30x22mm, 50cm white leads, 4mm plug	31.5032.26	15	120 (8x15)	3840 (32x120)
Kiddy H203PGK	30x22mm, 10cm white leads, 4mm plug	31.5033.26	15	120 (8x15)	3840 (32x120)
Kiddy H207PGT	30x22mm, carbon 90cm leads, * DIN socket	31.5072824	3	90 (30x3)	2160 (18x120)
Kiddy H203PGT	30x22mm, carbon 90cm leads, * 4mm plug	31.5039124	3	90 (30x3)	2160 (18x120)

*transparent leads

Quick guide

Overview of Neonatal Electrodes

Product	Order Code	Size	Leads			Gel		Material				X-ray	MRI	Incubators [§]	Connector		ECG type
			White	AAMI	IEC	Clear gel*	Karaya gel*†	Micro pore	Cloth	Foam‡	Clear tape				DIN	4mm plug	
Limb-Band	EP30016	25x50mm		60cm		●			●					●	●		Monitoring
Kiddy H207PG/F	31.5072.03	30x22mm			60cm	●		●						●	●		Monitoring
Kiddy H87PG/F	31.5872.04	Ø 30mm			60cm	●		●						●	●		Monitoring
Kiddy H203PG	31.5032.26	30x22mm	50cm			●		●						●		●	Resting
Kiddy H203PGK	31.5033.26	30x22mm	10cm			●		●						●		●	Resting
Kiddy H207PGT	31.5072824	30x22mm	90cm			●		●				●		●	●		Monitoring
Kiddy H203PGT	31.5039124	30x22mm	90cm			●		●				●		●		●	Resting
KittyCat 1050	31424768	Ø 25mm		60cm		●			●					●	●		Monitoring
KittyCat 1051	31424735	Ø 30mm		60cm		●			●					●	●		Monitoring
KittyCat 1052	31424743	Ø 25mm		60cm		●			●			●		●	●		Monitoring
KittyCat 1053	31424719	Ø 30mm		60cm		●			●			●		●	●		Monitoring
KittyCat 4203	31368072	Ø 22mm			60cm	●				●				●	●		Monitoring
KittyCat 4103	30710001	Ø 22mm		60cm		●				●				●	●		Monitoring
KittyCat 4105	31086575	22x30mm		60cm		●				●				●	●		Monitoring
Goldy H87V/F	31.3873.25	Ø 30mm			60cm		●	●							●		Monitoring
Goldy H87V	31.3870.24	Ø 30mm	60cm				●	●							●		Monitoring
Goldy H83V	31.3835.25	Ø 30mm	50cm				●	●								●	Resting
Cutie H207H	31.3076.26	30x22mm	60cm			●		●							●		Monitoring
Cutie H87H/F	31.3876.04	Ø 30mm			60cm	●		●							●		Monitoring
Cutie H27H/F	31.3276.03	Ø 22mm			60cm	●		●							●		Monitoring
PuppyDog 1042	31424785	25x31mm		60cm		●						●	●		●		Monitoring

* Full surface clear gel, conductive and adhesive

† Karaya gel is made from a natural source, its natural stickiness adheres to even the greasiest of skin without damaging it

‡ Durable foam, impervious to fluids

§ Clear gel is able to withstand high humidity; superior adhesiveness, gentle on skin – allows use for up to 3 days

 Covidien recommended electrodes

 Additional electrode options

Perinatal range

Kendall™ intrauterine pressure catheter



Transducer tipped, dual lumen

Kendall™ fetal spiral electrode



Single helix

Product	Order Code	PC/Pouch	PC/Box	PC/Carton
Kendall™ Intrauterine Pressure Catheter	56300	-	10	-
Kendall™ Fetal Spiral Electrode	31479549	-	50	-

A more complete obstetrics and perinatal range is available from Covidien



FOR MORE INFORMATION AND SUPPORT, PLEASE CONTACT YOUR LOCAL COVIDIEN REPRESENTATIVE

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