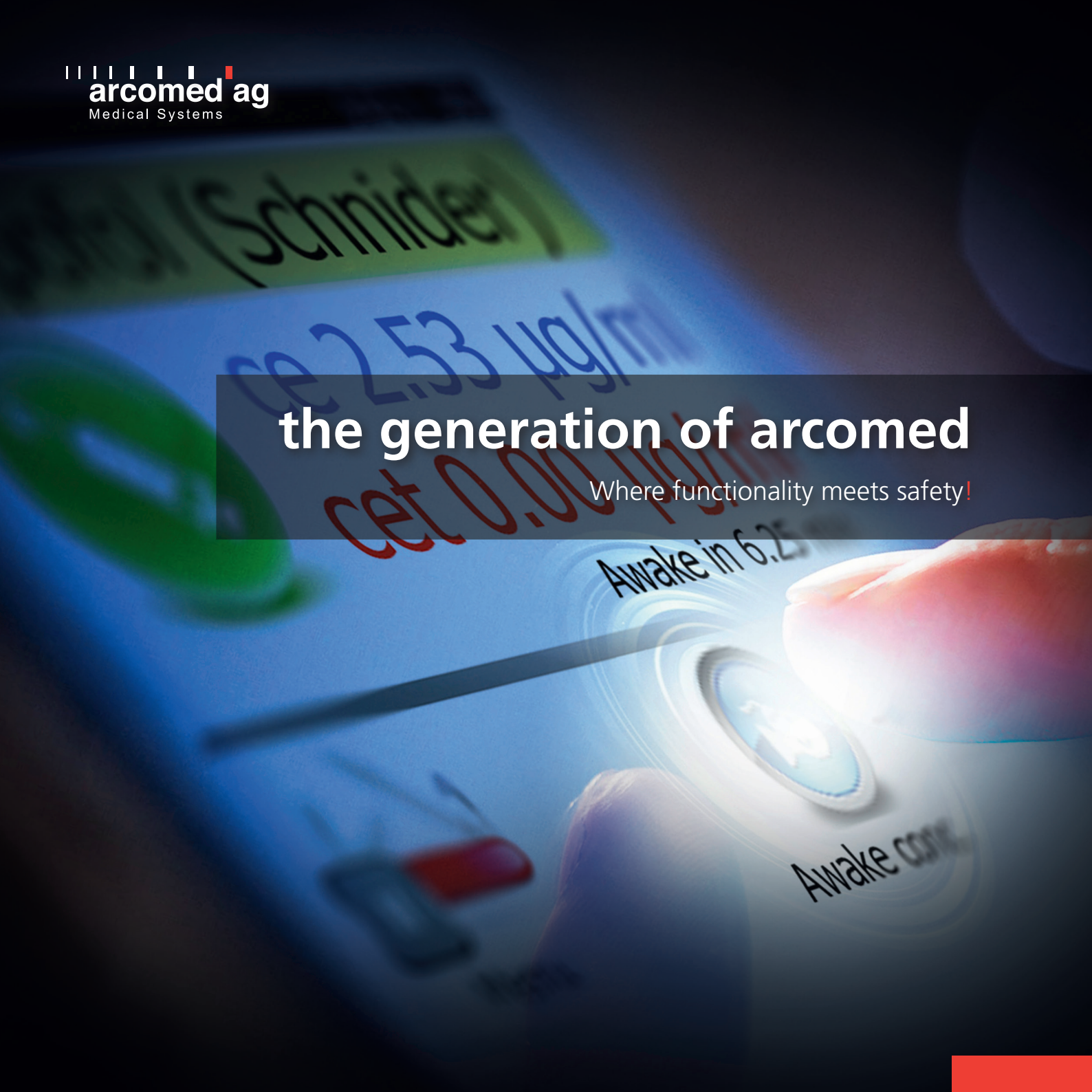


the generation of arcomed

Where functionality meets safety!



«*What do I want?*»

asks the mind

Immanuel Kant

desire

«*What's the point?*»

asks the faculty of judgement

Immanuel Kant

+function

«*What's the result?*»

asks the reason

Immanuel Kant

+functionality

Where imagination meets reality!



- wireless telephony with maximum mobility
- correct medication with automatic and accurate ml/h



- contacts
- received calls
- voice mail
- SMS for electronic data transfer to other devices
- DERS: dose error reduction system
- TCI / TIVA
- PCA / PCEA / Tokolyse
- electronic data transfer to PDMS or other devices



- colour touch screen
- colour coded shortcuts
- icon based navigation
- electronic data transfer to web
- colour touch screen
- colour coded shortcuts
- icon based navigation
- bidirectional data transfer to the hospital wide network



MedMarker™

the way forward in patient safety



stand alone solution for safer medication
(instead of, or to replace syringe / bag labeling)

- double-check colour and text
- no start-up costs for physical labeling
- no running costs for physical labeling
- no variations in quality of the physical labels
- easily adaptable to changes in protocol


to perfect a proven solution for safer medication
(in addition to syringe / bag labeling)

- double-check colour and text
- additional colour check – screen to syringe / bag

«...colour should be used judiciously to highlight key information...» (National Patient Safety Agency of the NHS, in: Design for patient safety – A guide to the design of electronic infusion devices. Edition 1, London 2010, p. 15.)

«It's not enough to desire, you have to do»

Johann W. von Goethe

The logo graphic for MedMarker™ is a vertical rectangle divided into two curved, overlapping sections. The top section is green and the bottom section is red. The text 'to increase patient safety' is in green and 'to decrease medication errors' is in red, both positioned within their respective colored sections.

to increase
patient safety

MedMarker™

to decrease
medication
errors

desire?

The MedMarker™ is your colour based coding system for medication used with infusion pumps. This colour coding enables you to have a clear overview about the medication used.

It ensures that you work with the right drug – to increase patient safety.

done!

workflow-efficiency:

- bed-side overview at a glance
- simplified work process
- minimised training time

workflow-safety:

- provides additional ways to check – doing the right things
- minimised medication errors
- reduced critical incidents and potential litigation

«Only he who knows the target can hit it»

Greek saying

AlertScout™

the way to act



react?

The AlertScout™ is your monitoring system to have an overview of the most common alarms: empty syringe alarm, occlusion alarm and air in line alarm.

It alerts you before an alarm occurs, so you decide when you can act.

act!

workflow-efficiency:

- colour and icon based visual status control
- minimized sudden interruption by alarms
- allows intervention at a self determined time

workflow-safety:

- allows you to concentrate on the patient's needs
- ensures a continuous medication flow
- pro-active, not reactive response to patient care

«I want to make a dent in the universe»

Steve Jobs

TouchScreen

the way to touch and act



scroll and search?

The TouchScreen combined with the shortcuts makes it easy to quickly find the function you need. The clear design enables an icon based navigation without menu scrolling and searching.

The shortcuts lead you intuitively – one touch and you are able to act.

touch and act!

workflow-efficiency:

- one touch takes you to your most used functions
- 100% intuitive and customisable to your needs
- the fastest way to make changes

workflow-safety:

- colour and icon based navigation for safer action in critical situations
- no scrolling and searching – increasing time for improved patient safety
- the calming element in stressful situations – doing the things right

ISO 26825

colour labeling standard



e.g. **Morphine**





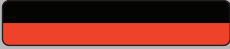




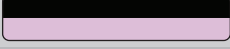

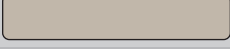

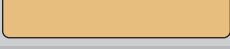



Antagonist: Naloxone

«...2 ½ years after the launch of the ISO standard 26825, the standard (partly adapted) was in 49% of 482 hospitals in 61 countries used... 80% of all hospitals wished that the pharmaceutical industry supplied this standard together with the drugs...» (Balzer F. et al: Standardised drug labeling in intensive care – results of an international survey among ESICM members, in: Intensive Care Med, 2012 Aug; 38[8]: 1298-305)

«Any customer can have a car painted any colour that he wants
so long as it is black»

Henry Ford

ISO 26825 Label	Drug group	Drug / Substance
	Induction agents	ISO: Propofol, Thiopenthone, Methohexitone, Ketamine
	Benzodiazepines	ISO: Diazepam, Midazolam
	Benzodiazepine antagonists	ISO: Flumazenil
	Muscle relaxants	ISO: d-tubocurare, pancuronium, atracurium, vecuronium
	Muscle relaxants: „Suxamethonium“	ISO: Suxamethonium
	Relaxant reversal agents	ISO: Neostigmine, edrophonium, pyridostigmine
	Opioids	ISO: Morphine, Fentanyl, Pethidine
	Opioid antagonists	ISO: Naloxone
	Vasopressors	ISO: Ephedrine, Phenylephrine, Metaraminol,
	Vasopressors: „Adrenaline“	ISO: Adrenaline
	Hypotensive agents	ISO: Nitroprusside, Nitroglycerine, Phentolamine, Hydralazine
	Local anaesthetics	ISO: Procaine, Lidocain, Bupivacaine Ropivacaine
	Anticholinergic agents	ISO: Atropine, Glycopyrolate
	Anti-emetics	ISO: Droperidol, Metoclopramide, Tropisetron
	Miscellaneous drugs	ISO: Oxytocin, heparin, protamine, potassium-chloride, antibiotics, non-steroidals tetrahydroamiacrin (THA)

DIVI*

colour labeling standard version 2012

* german interdisciplinary association of intensive care and emergency medicine



e.g. **Elektrolyte: Calcium chloride**



Exception of the Elektrolyte: NaCl 0.9%















«...more than 1'000 hospitals in Germany are using the DIVI-standard for syringe labeling...»

(DIVI e.v.: Recommendation syringe labeling 2012 – version 02.07.2012)

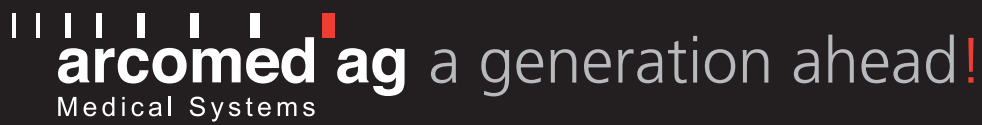
«We can't change the human condition,
but we can change the conditions under which humans work»

James Reason

DIVI – Standard: additionally part* of the ISO Standard

DIVI Label	Drug group	Drug / Substance
	Antiarrhythmics	DIVI: Ajmaline, Amiodarone, Metoprolol, Propafenone, Sotalol, Verapamil
	Anticonvulsants	DIVI: Levetiracetam, Phenobarbital, Phenytoin, Valproate
	Anticoagulants	DIVI: Abciximab, Alteplase, Argatroban, Danaparoid, Lepirudin
	Anticoagulants: "Heparin"	DIVI: Heparin
	Coagulants	DIVI: Tranexamic acid
	Coagulants: "Protamine"	DIVI: Protamine
	Bronchodilators	DIVI: Fenoterol, Orciprenaline, Theophylline, Reproterol
	Cholinergics	DIVI: Physostigmine, Pyridostigmine
	Electrolytes	DIVI: Calcium gluconate, Magnesium sulphate, Na bicarbonate, NaCl 0.45%
	Electrolytes: "Potassium"	DIVI: Potassium chloride, Potassium L-malate
	Electrolytes: "NaCl 0.9%"	DIVI: NaCl 0.9%
	Hormones	DIVI: Desmopressin, Hydrocortisone, Octreotid, Oxytocin, Prednisolone
	Hormones: „Insulin“	DIVI: Insulin
	Inodilators	DIVI: Enoximone, Dobutamine, Dopexamine, Levosimendan, Milrinone

* customisable to every standard differing to the ISO 26825



arcomed ag a generation ahead!
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