Product Description

Revision: 2014-Jan-16 CPW

NAME: SCALEIT AS: ND7049DSE
(2xA16/2-8-BL)

VERSION: FW052.001 NON STANDARD

OVERVIEW

ND7049 displays text on a FSTN black-on-white LCD.
Optimised for use in office environment.
High legibility and reliability in a compact double sided SS316L enclosure.

Displays UNI U137 weighing results (through sync bit interface) and communicates with a cash register (TEC /Trivec) over RS-232.

IN USE

Communication interface:
- Communication over RS-232 (full duplex) to Trivec systems (2400,N,8,1)
- Async serially clocked data from UNI System weights (D3)
- Parameters to set: None, factory set

Commonly used commands:

Cash register sends	<ENQ>
Display acknowledges	<ACK>
or disapproved due to motion or out of range	<BEL>
Cash register requests weight	<DC2>
Display replies with weight	<STX>A XXXXX<chks><ETX>
or out of range/motion	<STX><7F> 00000<chks><ETX>

Checksum is simple xor of all characters between <STX> and <ETX>, excluding the <chks> for obvious reasons;-)

MECHANICAL

- 1mm 316L stainless steel frame
- 2mm scratch-proof front window
- Made to go onto a vertical 30mm steel tube carrying conductors.
- Strain relief strap: Farnell 101-4843

TECHNICAL DATA

	Wind Sensor hardware
Controller PCB	ND5143v0 16k flash MODIFIED
Power supply	5V reg directly (OPTION: 8-30VDC regulated)
Current consumption	Max: 35mA per display side
Connection	On-board 8 terminal positions for single conductors
Front panel size	W160 x H80 x D45mm at base

OPTIONS

- Enclosure for IP65
- Addressability
- Synchronous interface
- Custom firmware for special applications

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Connection via Wago pcb terminals (0,2~0,75mm² or max 0,5mm² with crimp end):

CABLE FOR UNI 137 (SYNCHRONUOUS LINE):

Note: These UNI signals will connect to both displays in parallel
3m (type:Lapp LiYY 4-core supplier:Farnell 120-4332).
Pin numbers are referring to 15pin female dsub on UNI
- Male 15 pin dsub plug:
- Power 8-30Vdc=pink
- 5Vdc=brown=pin15
- 0V=white=pin1 or grey
- D3 binary=green=pin12
- CK clock=yellow=pin13

Cut length: 3,4m
Dismantle 3cm one side, 16cm other side.
Y-couple with 16cm same colors close to outer mantle. Heat shrink.
3cm side: 15pin male d-sub soldered. Do not mount shell (connector must slide through pipe under installation)

CABLE FOR RS-232:

NOTE: Only one of the displays will be connected to the cash register
- 3m (type:AlphawireSL005 supplier:Farnell 123-5591).
- Female 9 pin dsub plug:
- Pin numbers refers to typical PC or Trivec port .
- Bridge pin 4 to 6 plus bridge pin7 and 8
- Rx=red=pin3(TxD)   Tx=white=pin2(RxD) and GND=black=pin5 for RS-232 (cable 50cm connects to only one of the ND7049)

Cut length: 3,4m
Dismantle 3cm one side, 16cm other side.
3cm side: 9pin female d-sub soldered. Do not mount shell (connector must slide through pipe under installation)

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