

**IEEE 1451.4 Standard Working Group
Telephone Meeting, August 1, 2002
Meeting Minutes, issued August 5, 2002, approved Aug 8, 2002**

Chair: T. Licht

Secretary (acting): D. Potter

Attendance:

Jorgen Baekke, 1451dot4@baekke.com

Mike Dillon, Modal Shop, Mdillon@modalshop.com

Garritt Foote, National Instruments, Garritt.Foote@ni.com

Ed Herceg, Macro Sensors, eeh@macrosensors.com

Torben Licht, B&K, Trlicht@bksv.com

David Potter, National Instruments, David.Potter@ni.com

Jochen Schneider, HBM, jochen.schneider@hbm.com

1) Minutes of Previous Meeting

- a) Minutes of the 07-25-02 meeting approved with modification to Section 10, New Business regarding Sensors Expo in Boston. The minutes should read: "Instead of a separate 1451.4 booth for the Sensors Expo, Boston, Sept 24-26, 2002, National Instruments proposes that 1451.4 technology be demonstrated in vendors' standard booths. NI will plan to move the large machine demo into their booth, and demonstrate interoperable plug and play with sensors from multiple vendors. This will avoid the need for a second booth, and probably increase the exposure. After discussion, the Working Group thought that this was a good approach."

2) Patent discussion

- a) Patent distributed by B. Shuh was discussed at earlier Telcon in 2001 (prior to Watlow's participation in the group).
- b) Discussion is tabled until B. Shuh can participate.

3) IEPE Pressure Transducer Template proposal: M. Dillon

- a) Discussion of pressure template, proposed for addition to the IEEE list of templates.

http://www.1451dot4.com/presentations/071102/IEEE_IEPE_Pressure_Template.tdl

- b) New proposal adds definitions for new tags "linearity(alt)" and "sensitivity(alt)"
- c) The 'full-scale' condition is never explicitly stated, but assumed to be $\pm 5V$. Suggestion to use tag with assigned value (in the template), costing no bits.
- d) DTC tag may be identical to one of the FRF tags.
- e) Most templates assume linear behavior. Nonlinear sensors are currently addressed as special cases (RTD, thermocouple, thermistor in the new proposed templates) or with a calibration TEDS (to be proposed by N.I.).

f) Action: M. Dillon will consider suggestions and redistribute to group.

4) Units proposal: G. Foote

- a) Presentation of document proposing extension to dot2 method to handle popular units, and allow handling of 1/log representation.
- b) Group agrees that the proposal is sound, and should be incorporated as feature of TDL.
- c) Discussion on whether IEEE standard templates should take advantage of this feature. Generally agreed that this will be addressed on a template-by-template basis.

Action: G. Foote will document unit proposal for insertion into Chapter 7.

5) Sub-Group on Force Transducers: D. Potter

- a) No report from sub-group
- b) **Action: D. Potter will organize a subgroup meeting to revisit the proposals and make recommendation to the working group.**
- c) There has been no concrete feedback from the group back to N.I. on the proposal for 'non-IEPE' templates (bridge, voltage, current, RTD, force, load etc.). NI has received

some feedback outside of the group, and will incorporate in next revision of proposal. In any case, this will not involve significant changes, and the group should review these documents to discuss again at upcoming Telcon.

8) Manufacturer Codes: T. Licht, M. Dillon

- a) M. Dillon has added text to the IEEE letter that requests distribution of manufacturer codes, free of charge. Discussion of wording. **Action: M. Dillon will edit, also add similar text on distribution of template collections, and distribute to group for discussion**
- b) The Working Group effectively dissolves when the standard is published. A 'special' group can be maintained for approving manufacturer's codes, templates, etc.

http://www.1451dot4.com/presentations/072502/Dot4_Manufacturer_List_V21.doc

9) Action Items:

- a) Secretary has compiled a list of Action Items for the release of the Standard, as discussed at the Austin Meeting. The Secretary will keep the list current.

http://www.1451dot4.com/presentations/053002/1451dot4_ACTIONS_30_May_02.doc

10) New Business:

- a) none this week

11) Next Meeting:

- a) Next Telcon: Thurs, Aug 8, 2002, 2:00 pm EDT
- b) There will probably not be a Telcon on August 15 due to low attendance
- c) Adjourn: 4:00 pm EDT.