Analogue Recording/Control User Support

Bridging the competence gap

Vintage analogue drives and control circuits still do their duty.
Surprisingly reliable and with adequate speed and precision.

Analogue competence is rare, though. And analogue drive competence even more so. That's a problem when process-critical equipment fail.

At around € 15 for each recording channel[1] and € 3350 for the data taker[2], we think that we have a simple and cost-effective solution to the problem. With real competence (as opposed to "contract competence") available in most time zones.

"Intelligent connectors" connect your process-critical vintage drives to a USB unit that identifies every channel, records what is going on and sends the recordings plus channel identification to our home page where a pool of experienced start-up engineers[3] help solve the problem together with your personnel. Fast, easy, efficient and competence-building. Be up and running in hours instead of weeks.

Contact us for more information by sending an e-mail to edm@gke.org or phone us at +46 586 12266 (European office hours). Or try Skype: Skogsgurra

Best regards

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[1] Hardware cost for "intelligent connectors" when installing 30 or more channels.
[2] One unit is used for all connectors. Can also be used "wild" as a competent ten-channel recorder.
[3] Experience with AB, ABB, AEG, ASEA, BBC, Control Techniques, GE, Siemens, Strömbergs, Telemecanique, Toshiba and many other drives. Visit www.gke.org

The ARCUS System comprises the following components:

1. Experience and knowledge. A select group of trouble-shooters, drive designers and commissioners from companies that are – or were – active in the drive system field is available around the Globe for 24/24, 7/7 support.
2. Centrally available documentation. All drawings and schematics stored in a system-specific file on our site. Available for all involved.
3. "Intelligent Connectors" or "ICs", built into each and every cabinet that contains analogue control equipment, PLCs or Power Electronics. They are pre-wired to pertinent signals and adapt signals so they are shown with the correct scale factor. Every connector also has a built-in memory with data that automatically couples the right documentation and reference data to the measurements. Number of ICs unlimited.
4. A data taker that communicates with a LapTop via USB and is plugged into the ICs. Every time the data taker is connected, it gets information about factory, machinery and section so that the measurement program starts with the correct settings. The Program then activates the correct documentation files and the correct reference recordings to facilitate comparisons with measurements taken earlier.

Advantages:

5. Your organization can have analogue competence available – anytime. Seasoned drive and power electronics engineers analyze the recordings and guide your personnel over the phone. Bridging the competence gap.
6. Vendor independence. All kinds of equipment can be connected. No expensive and dubious service contracts. We get paid every time we help you getting the system up and running. No down payment, no yearly fees.
7. You needn't look for that old recorder or scope. You needn't find someone that can operate it, connect it, take readings and – above all – know "what screw to turn".
8. At last! Complete reference data. Not just those hard-to-interprete scribbled notes in the schematics. Reference data that show every part of the cycle – from start to stop.
9. Unbeatable ease-of-use. No settings. Just plug and record. All "normal" measurements can be made using the high-resolution +/- 30 V range. Flexible zoom and area save/recall makes detailed study of irregularities a breeze.
10. And – finally – the data taker is also a complete and very competent ten channel logger/recorder with 12 bits resolution, which can be configured to record 10 000 samples/second at four analogue channels and eight binary channels. Configured to record ten channels, the sampling rate is 4000 samples/second. On every channel. That's fast enough to study DC motor armature current ripple in detail.