

Universal analog measuring case with integrated datalogger

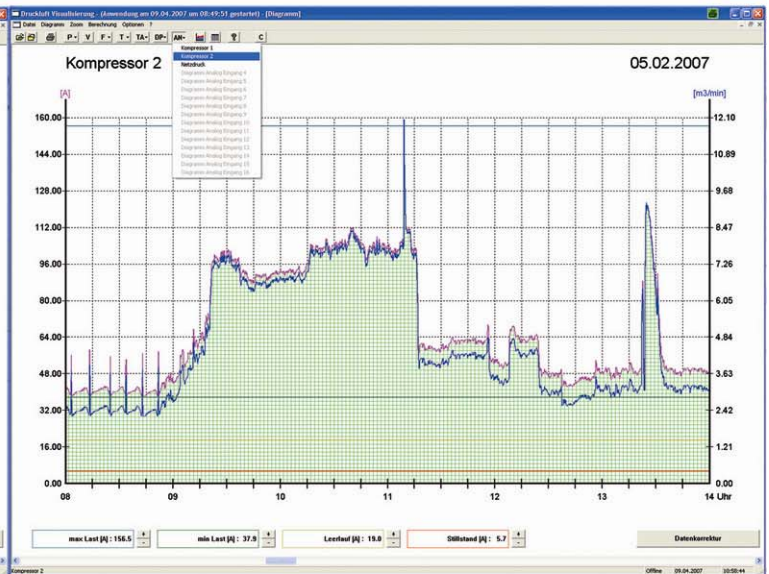
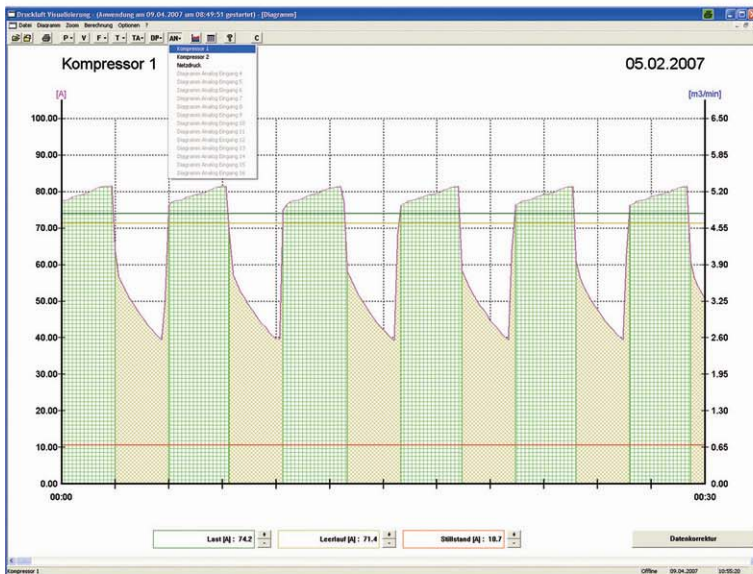
- Standard data rate of 1 second
- 1000 days long time logging
- 8 universal analogue inputs
- 4 different measuring points
- PC-Program for 16 compressors and 16 analogue sensors



Real-time analysis for compressed air stations

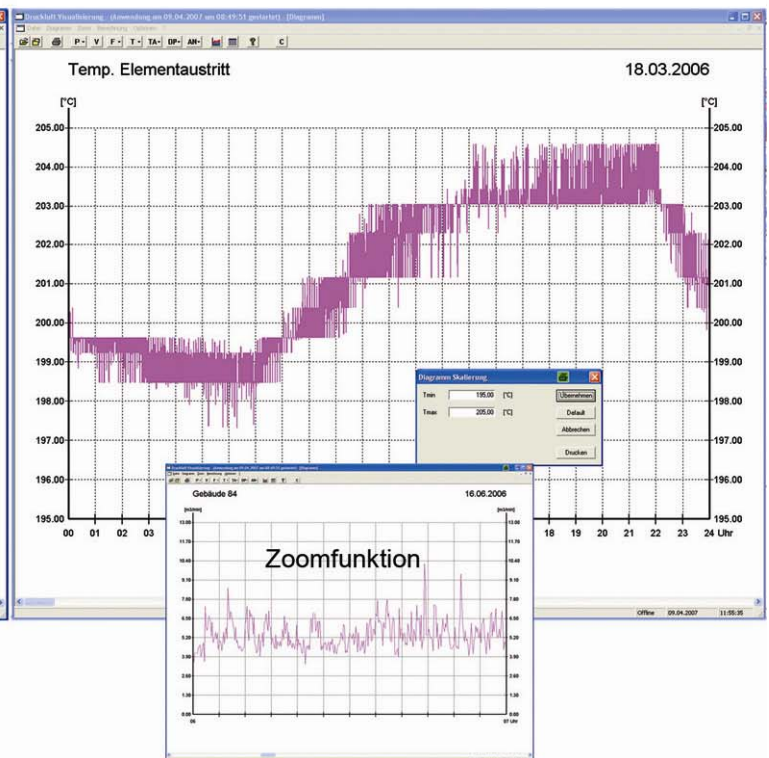
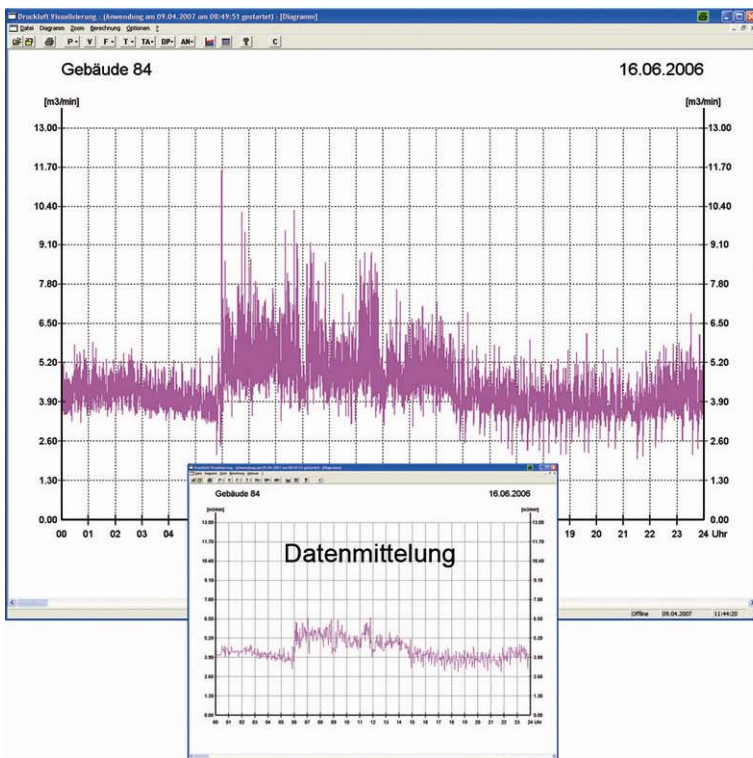
1.
Adjust the Amperé for load / unload compressors

2.
Adjust the Amperé for variable speed compressors



Flowdiagram with different Average settings

Flexible zoom functions for diagrams



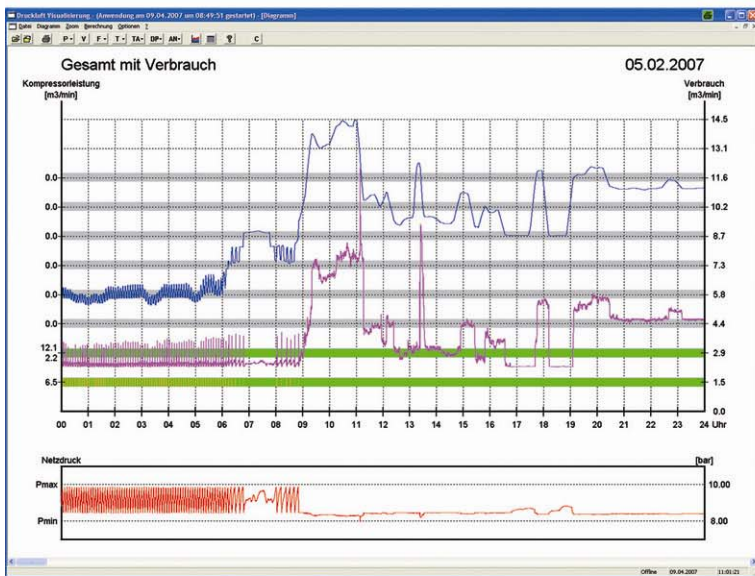
Flexible and accurate analysis of all logging data

3.

Shows pressure, air consumption and status of the compressors

4.

The week view shows the air consumption for each day



Data analysis

Extrapolation of the data

Druckluft Visualisierung - (Anwendung am 09.04.2007 um 08:49:51 gestartet) [Diagramm]

Kompressor Daten (Messung 02.02.2007 - 08.02.2007)

| Kanal | Kompressor | Leistung [m3/min] | | Last [kW] | | Leerlauf [h:mm:ss] | Messzeit [h:mm:ss] | Laufzeit [%] | Lastzeit [h:mm:ss] | Leerlaufzeit [h:mm:ss] | | |
|-------|---------------|-------------------|------|-----------|--------|--------------------|--------------------|--------------|--------------------|------------------------|----------|-------|
| | | min | max | min | max | | | | | | | |
| 1 | Kompressor 1 | 0.0 | 8.5 | 0.0 | 60.39 | 18.53 | 152:27:50 | 99.37 | 130:13:30 | 65.89 | 21:16:20 | 14:04 |
| 2 | Kompressor 2 | 2.2 | 12.1 | 25.20 | 104.10 | 0.00 | 152:27:50 | 99.30 | 151:24:10 | 100.00 | 00:00:00 | 0:00 |
| 3 | Kompressor 3 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 4 | Kompressor 4 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 5 | Kompressor 5 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 6 | Kompressor 6 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 7 | Kompressor 7 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 8 | Kompressor 8 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 9 | Kompressor 9 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 10 | Kompressor 10 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 11 | Kompressor 11 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 12 | Kompressor 12 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 13 | Kompressor 13 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 14 | Kompressor 14 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 15 | Kompressor 15 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |
| 16 | Kompressor 16 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 152:27:50 | 0.00 | 00:00:00 | 0.00 | 00:00:00 | 0:00 |

Messdaten (Messung 02.02.2007 - 08.02.2007)

| Kanal | Kompressor | Schaltungen | | Gesamte Energie [kWh] | | | Druckluft [m3] | | | Kostenberechnung [€] | | |
|-------|---------------|-------------|------|-----------------------|----------|---------|----------------|----------|--------|----------------------|----------|--------|
| | | Motor | Last | Last | Leerlauf | Gesamt | Last | Leerlauf | Gesamt | Last | Leerlauf | Gesamt |
| 1 | Kompressor 1 | 2 | 492 | 6581.59 | 415.50 | 6977.09 | 50789.0 | 524.63 | 33.24 | 558.17 | | |
| 2 | Kompressor 2 | 2 | 2 | 6279.39 | 0.00 | 6279.39 | 38540.0 | 502.35 | 0.00 | 502.35 | | |
| 3 | Kompressor 3 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 4 | Kompressor 4 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 5 | Kompressor 5 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 6 | Kompressor 6 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 7 | Kompressor 7 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 8 | Kompressor 8 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 9 | Kompressor 9 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 10 | Kompressor 10 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 11 | Kompressor 11 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 12 | Kompressor 12 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 13 | Kompressor 13 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 14 | Kompressor 14 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 15 | Kompressor 15 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 16 | Kompressor 16 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |

Druckluft Visualisierung - (Anwendung am 09.04.2007 um 08:49:51 gestartet) [Diagramm]

Leistungskennzahl

| | |
|--------------------|------------|
| Firma | Stetter |
| Standort | Stuttgart |
| Kompressor Station | Werk II |
| Start der Messung | 02.02.2007 |
| Ende der Messung | 08.02.2007 |
| Dauer der Messung | 152:27:50 |

Standort Daten

| | |
|-----------------------|---------|
| Arbeitszeit Tage/Jahr | 365 |
| Kosten/kWh | 0.080 € |

Messdaten

| | Schnitt | Minimum | Maximum |
|-----------------------|---------|---------|---------|
| Leistung [kW] | 78.42 | 54.05 | 101.80 |
| Druck [bar] | 8.64 | 8.28 | 9.41 |
| Verbrauch [m3/min] | 9.78 | 6.74 | 12.70 |
| System Ausnutzung [%] | 52.59 | 38.25 | 68.28 |

Messung Gesamt

| | | | |
|------------------------|-----------|-------------------------|------------|
| Energie [kWh] | 13256.48 | Druckluft [m3] | 88221.0 |
| Energie Last [%] | 96.87 | Energie Leerlauf [%] | 3.13 |
| Effizienz [kWh/m3/min] | 8.01840 | Kosten/m3 | 0.011873 € |
| Last-Periode Gesamt | 1027.28 € | Leerlauf-Periode Gesamt | 33.24 € |
| Kosten Messung Gesamt | 1080.52 € | | |

Jährliche Kalkulation Gesamt

| | | | |
|----------------------------|------------|-------------------------|------------|
| Last-Periode Gesamt | 59023.84 € | Leerlauf-Periode Gesamt | 1909.85 € |
| Jahresenergie Gesamt [kWh] | 761868.83 | Jahreskosten Gesamt | 60933.49 € |

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Offline 09.04.2007 11:23:54



Flowsensor



Dewpoint



Oiltemperature



Temperature



CT clamps



200 A



400 A



1000 A

airleader
Compressor Management

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