

# DATA SHEET FOR FAULT FINDING AND PROBLEM SOLVING IN REFRIGERATION INSTALLATIONS WITH *FRIGOPACK\_E* FMV



Basic installation data and settings are needed for effective trouble-shooting, analysis and problem-solving:

**1. REFERENCE/  
CUSTOMER:**

\_\_\_\_\_

**2. INVERTER DATA:**

Product code<sup>1</sup>: \_\_\_\_\_

Serial number<sup>1</sup>: \_\_\_\_\_

Software version<sup>2</sup>: **1** \_\_\_\_\_

<sup>1</sup>) see type plate

<sup>2</sup>) note display content of parameter **AP16**

**Trip message as displayed:**

\_\_\_\_\_

**Further comments on trip occurrence  
(how often, at special time of day?):**

\_\_\_\_\_

**Anything special about installation?**

\_\_\_\_\_

**Please note parameter settings of  
DIGIN WORD resp. dIN:**

**2**

\_\_\_\_\_

(Menu  
DIAGNOSTIC)

**Please note parameter settings of  
DIGOUT WORD resp. dOUT:**

**3**

\_\_\_\_\_

(Menu  
DIAGNOSTIC)

**3. INSTALLATION:**

**Refrigerant:**

**R** \_\_\_\_\_

**Compressor:**

Manufacturer: \_\_\_\_\_

**Compressor VsC1 (variable speed):**

\_\_\_\_\_ (type)

**Compressor FsC2 (fixed speed):**

\_\_\_\_\_ / \_\_\_\_\_ (type/number)

**Compressor with capacity control (CC):**

\_\_\_\_\_

**Type of installation:**

\_\_\_\_\_

Low temp. (LT) Temp./Op. points: \_\_\_\_\_

Medium temp. (MT) Temp./Op. points: \_\_\_\_\_

A/C Temp./Op. points: \_\_\_\_\_

Chiller

Heat pump

Condenser

Other:

**4. CONFIGURATION:**

- Direct evaporation \_\_\_\_\_ (temperature)
- Direct condensation \_\_\_\_\_ (temperature)
- Cold medium \_\_\_\_\_ (temperature)
- Heat medium \_\_\_\_\_ (temperature)
- Cascade       Other: \_\_\_\_\_

**5. CONTROLLING:**

- Suction pressure control with pressure sensor
- Evaporation pressure control with pressure sensor
- External control with 0 ... +10 V signal
- External control with setpoint adjustment 0 ... +10 V
- Temperature control of chiller medium
- Outside temperature guided condensation (floating control)
- Time-controlled evaporation temperature (night-time increase)
- Isesco** energy-saving intelligent control system



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**6. SETTINGS & MEASURED VALUES**

*Please fill out the following table with parameter settings and measured values of the installation.  
Please use right column for installations with additional keypad PROG1:*

AP01:	01: pe SUCT PRES
AP02:	02: pe SUCT PRDV
AP03:	03: pc COND PRES
AP04:	05: STATUS / pef
AP05:	30: pe MINIMUM
AP06:	31: pe SETPNT 1
AP07:	32: pe SETPNT 2
AP08:	41: pc SETPOINT
AP09:	49: pc MAXIMUM
AP10:	61: VsC CURR MAX
AP11:	62: VsC FREQ MAX
AP12:	65: VsC FREQ MIN
AP13:	70: VsC tinh TIM
AP14:	81: FsC ton DLY
AP15:	91: FS...pe CNTR P-GN
AP16:	100: FS...

**7. TRIP DIAGNOSIS:**

Please enter values of menu „TRIP/TRIP HISTORY/TH1...TH10 bzw. TRIP 1...TRIP 10“ into table on page 3 and send to supplier

**8. CIRCUIT DIAGRAMS**

Please send electrical wiring/circuit diagrams of installation to KIMO !

**9. COMMENTS:**

**1 ... 13** : Please refer to the respective Quick-Start Guide for more information

Störungen	Störprotokoll
Störung	Störung 1 (neu)
Störung	Störung 2
Störung	Störung 3
Störung	Störung 4
Störung	Störung 5
Störung	Störung 6
Störung	Störung 7
Störung	Störung 8
Störung	Störung 9
Störung	Störung 10 (alt)

  

**Fehlercode. Siehe Seite 4 für mehr Erläuterungen.**

Code: 0	NO TRIP	Keine Störung
Code: 1	OVERVOLTAGE	Überspannung
Code: 2	UNDERVOLTAGE	Unterspannung
Code: 3	OVERCURRENT	Überstrom
Code: 5	EXTERNAL TRIP	Externe Störung im Sicherheitskreis
Code: 6	INVERSE TIME	Überlast, Startproblem
Code: 7	CURRENT LOOP	Strom am AIN2 < 4 mA
Code: 17	MOTOR OVERTEMP	PTC-Geber meldet Motor zu warm
Code: 24	DESAT (OVER I)	IGBT Kurzschluss
Code: 25	DC LINK RIPPLE	Schwankungen im Zwischenkreis (Phase fehlt?)
Code: 32	OTHER	Andere Ursache