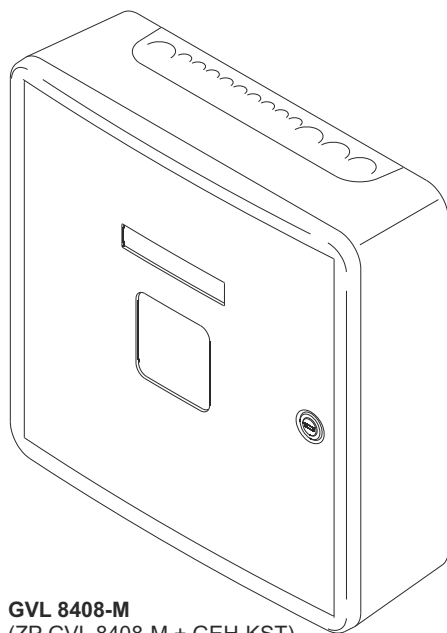




**D+H**

**GVL 8408-M**

**CE**



**GVL 8408-M**  
(ZP GVL 8408-M + GEH-KST)

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## Safety notes

### Operating voltage 230 VAC!

#### Risk of injury from electric shock!

- Connection has to be carried out only by an authorized electrical specialist
- Only for inside mounting
- Just use unchanged original D+H parts

## Guarantee

You will get 2 years guarantee for all D+H products from date of verified handing over of the system up to maximal 3 years after date of delivery, when mounting and starting has been carried out by an authorized D+H-distributor.

D+H guarantee is expired, with connection of D+H components with external systems or with mixing of D+H products with parts of other manufacturers.

## Declaration of Conformity

We declare under our sole responsibility that the product described under "Technical Data" is in conformity with the following directives:

2014/30/EU, 2014/35/EU

Technical file at:

D+H Mechatronic AG, D-22949 Ammersbek

Dirk Dingfelder  
Member of the Board  
17.11.2015

Maik Schmees  
Authorized signatory, Technical Director

## Intended use

- Ventilation control for small to medium sized building objects
- For triggering of 24 VDC drives
- 5 ventilation groups, expandable to 6 groups
- 8 A total actuating current - stabilized
- Expandable with D+H accessories
- Only for indoor mounting

## Performance features

- Ventilation safety function (key operation OPEN/CLOSE), can be free encoded
- Weather automatic for single groups, can be switched on and off
- Entry for external control, e.g. timer
- Possibility of connecting rain detector or wind/ rain detector without supplementary module
- Plastic housing, surface mounted type with lockable steel sheet door

## Maintenance and cleaning

Inspection and maintenance has to be carried out according to D+H maintenance notes. Only original D+H spare parts may be used. Repair is to be carried out exclusively by D+H.

Wipe away debris or contamination with a dry, soft cloth.

Do not use cleaning agents or solvents.

## Disposal

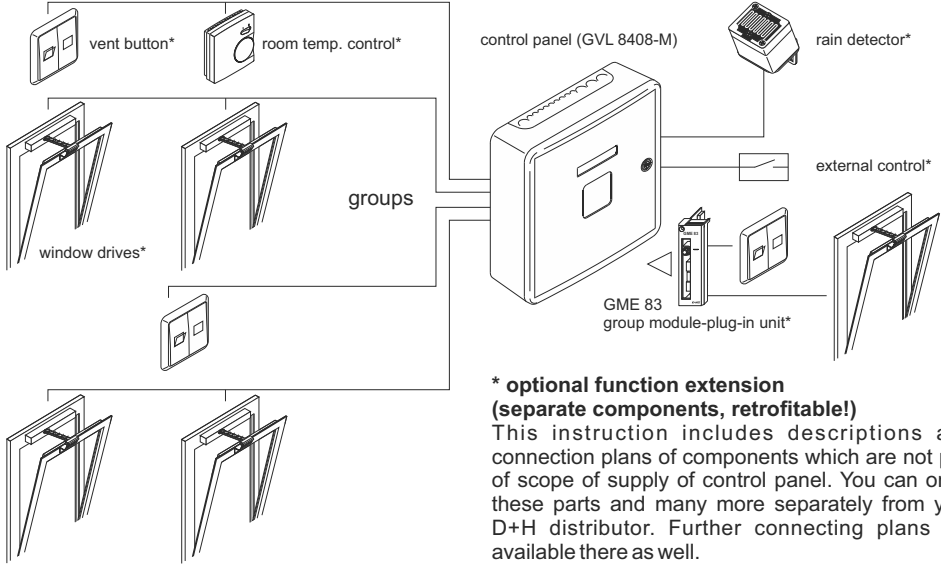
Electrical devices, accessories, batteries and packaging should be sorted for environmental-friendly recycling. Do not dispose electrical devices and batteries into household waste!

Only for EC countries:

According the European Guideline 2012/19/EU for waste electrical and electronic equipment and its implementation into national right, electrical devices that are no longer usable must be collected separately and disposed of in an environmentally correct manner.



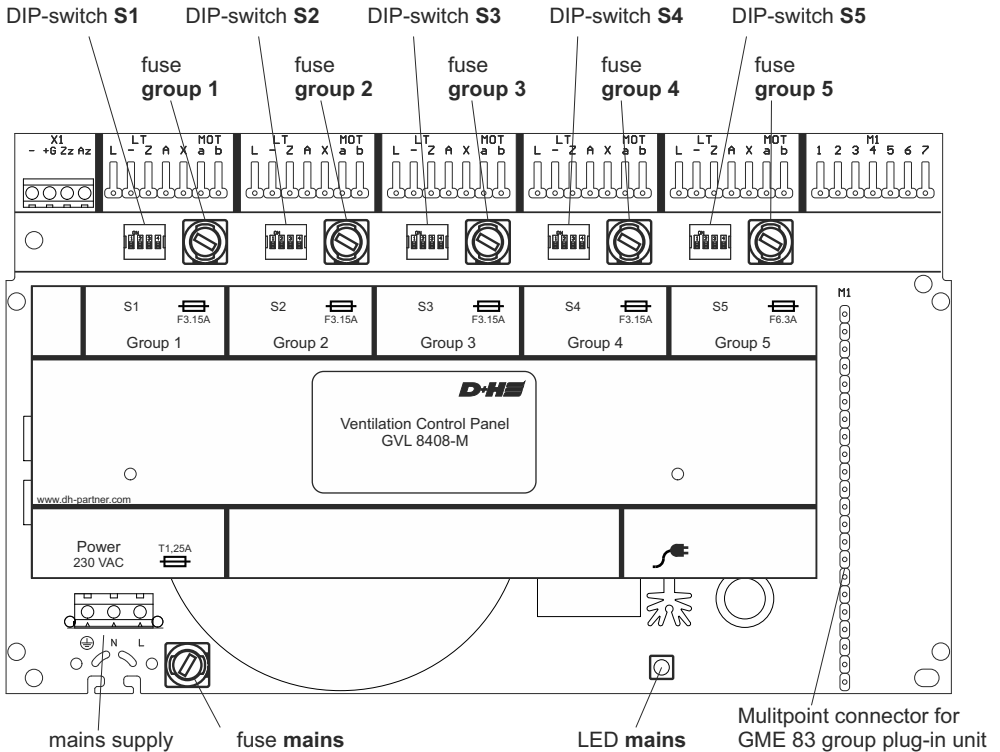
# Assembly scheme



## \* optional function extension (separate components, retrofitable!)

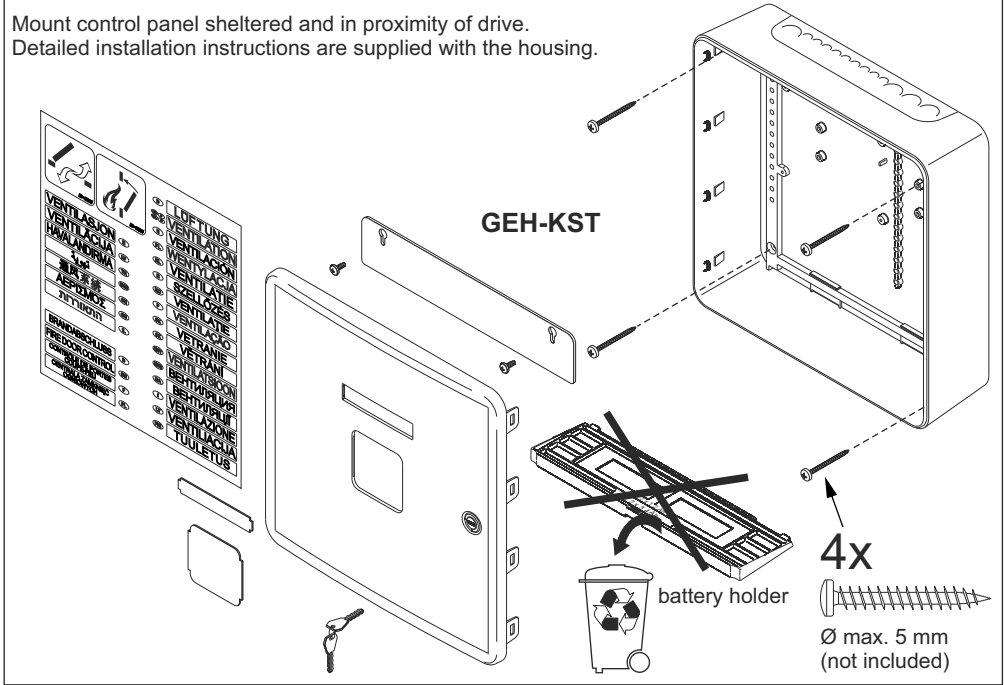
This instruction includes descriptions and connection plans of components which are not part of scope of supply of control panel. You can order these parts and many more separately from your D+H distributor. Further connecting plans are available there as well.

# View motherboard

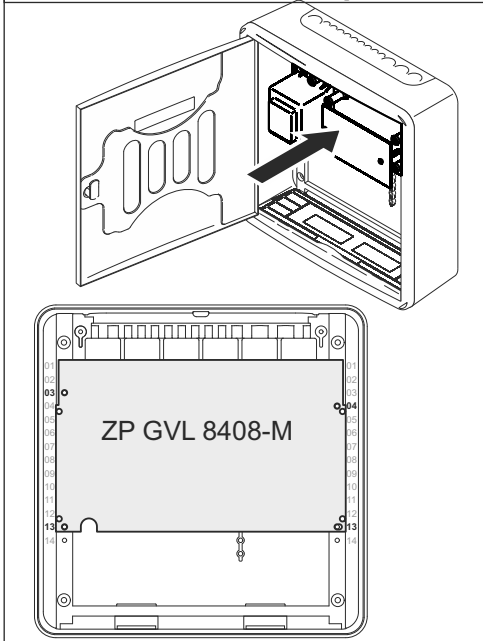


# Mounting of ventilation control panel with housing GEH-KST

Mount control panel sheltered and in proximity of drive.  
Detailed installation instructions are supplied with the housing.



## Position of the central pcb



## Technical Data

Type	GVL 8408-M	
Nominal voltage	230 VAC, 50 Hz	
Rated power	240 VA	
Stand-by operating	2,5 W	
Class of rating	short-time duty, 20%	
Protection class	I	
Ingress protection	IP 30	
Temperature range	-5...+40°C	
Output voltage	24 VDC	
Res. ripple	<10%	
Safe output: *		
Running current of drives	6,4 A	
Rated current of drives	8 A	
Housing	plastic, steel sheet door	
Colour	white	
Dimensions	310 x 310 x 100 mm	

\* Please observe:  
The **output current of the groups 1 ... 4** amounts **max. 4 (Group 5 max. 8 A)**.  
The **total output current** of the control panel, is limited **up to 8 A**.

## Encoding of groups – DIP-Switch S1 ... S5

Following functions can be adjusted for each group separately with **DIP switch S1 - S5** on motherboard of control panel and on group plug-in unit, if available.

The delivery state of all DIP-switches is OFF.

**1 = ON** Drives **CLOSE** up to final position by **single pressing** on respective vent button.  
**1 = OFF** Drives are closing **only so long as** the vent button is **pressed**.

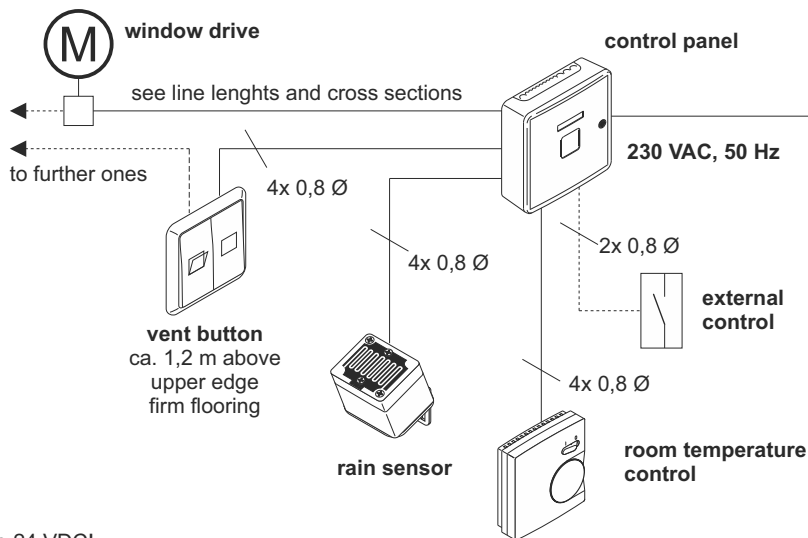
**2 = ON** Drives **OPEN** up to final position by **single pressing** on vent button.  
**2 = OFF** Drives are opening **only so long as** the vent button is **pressed**.

**3 = ON** Drives are **automatically closed** by trigger of function „**Central CLOSE**“, e.g. by rain detector or room temperature control.  
**3 = OFF** Drives can be closed **only by pressing** the respective **vent button**.

**4 = ON** Drives are **automatically opened** by trigger of function „**Central OPEN**“, e.g. by room temperature control.  
**4 = OFF** Drives can be opened **only by pressing** the respective **vent button**.

\* The vent button of the respective group.

## Wiring plan (Paragon)



Output voltage 24 VDC!

Do not run cables together with power lines!

In case of a cable with **ground wire**

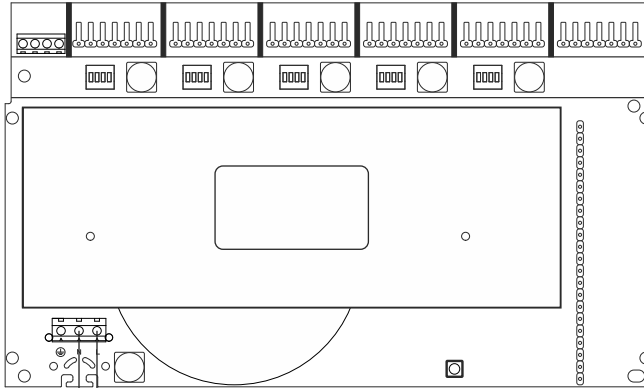
(e.g. green / yellow) this must **not be used!**

## Line lengths and cross sections

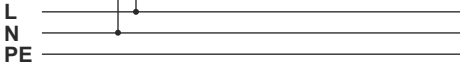
type	total current																
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	
2x 1,5 mm <sup>2</sup>	240	120	80	60	48	40	34	30	27	24	22	20	18	17	16	15	m
2x 2,5 mm <sup>2</sup>	400	200	130	100	80	65	55	50	44	40	36	33	31	28	27	25	m
2x 4 mm <sup>2</sup>	640	320	213	160	128	107	91	80	71	64	58	53	49	46	43	40	m

Cross section (mm<sup>2</sup>) =  $\frac{\text{cable length (m)} \times \text{total current}}{80}$

## 230 VAC supply

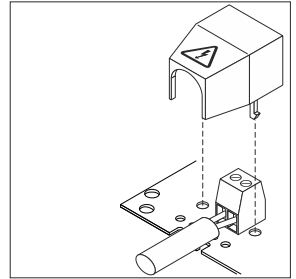


230 VAC, 50 Hz



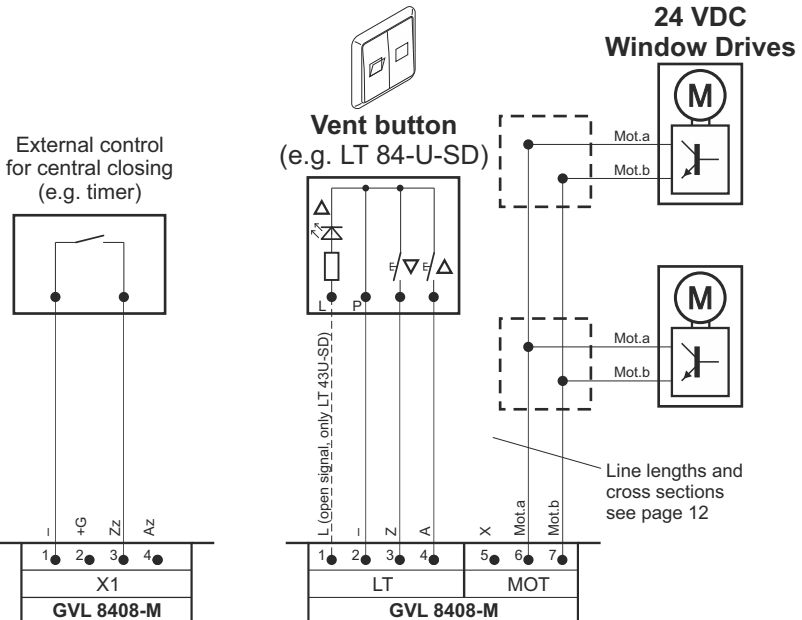
### Covering

Place enclosed protection cap over supply terminal after main cable has been connected.



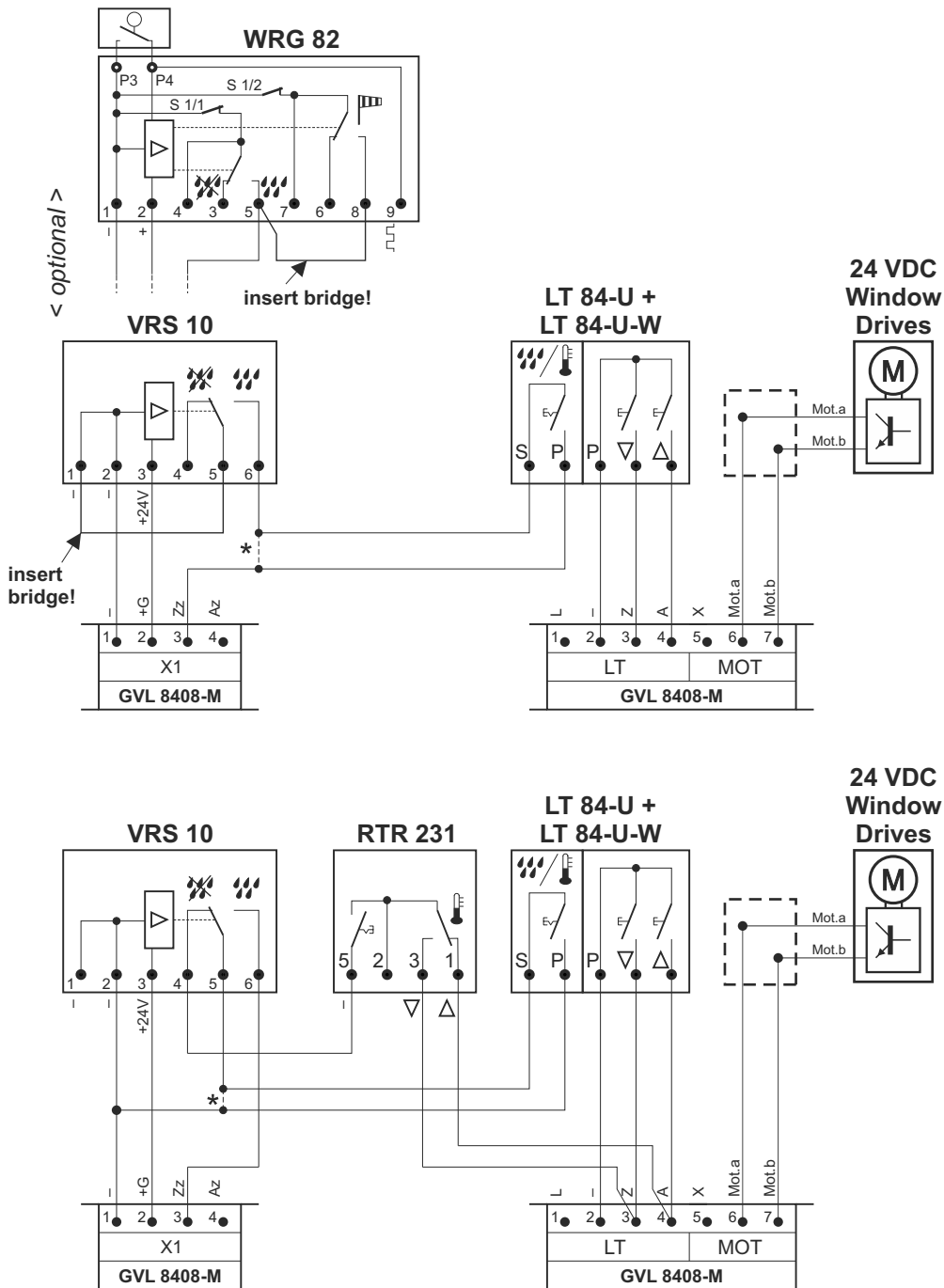
## Connection – Vent buttons and Window drives

### Drive group 1 ... 5 (6)



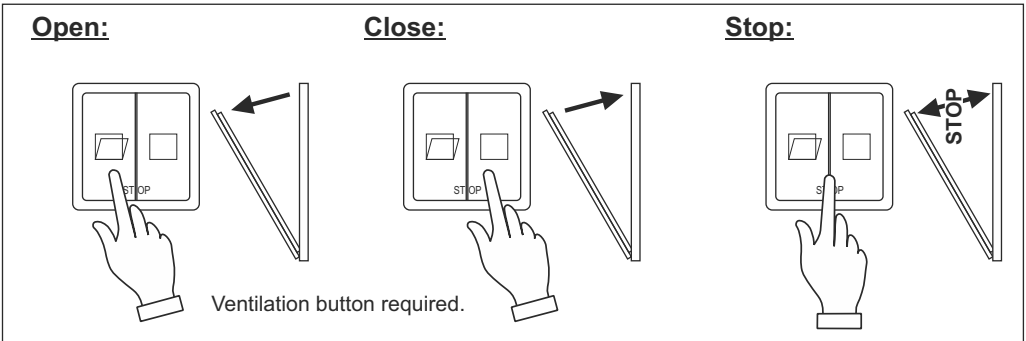
Ask your local D+H partner for further connection examples.

# Connection – Rain sensor and Room temperature control



\* Connect lead directly when no automatic switch available. In this case the manual operation is out of function.

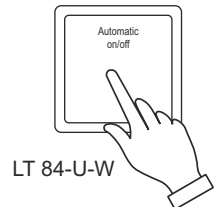
## Operation - Day-to-day ventilation



## Operation - Weather automatic

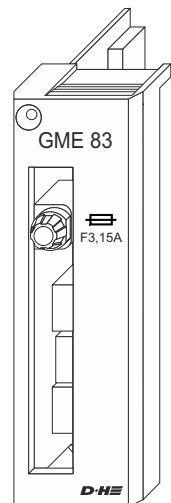
### Only if wind detector or rain detector available:

If the weather automatic is switched on via vent button LT 84-U-W (optional), the system will automatically close in case of wind or rain. The system will not automatically open again, if wind or rain has stopped. Opening of the system for ventilation via vent button. The weather automatic can be switched-off at vent button LT 84-U-W (optional), if gap ventilation is required in case of bad weather. Gap ventilation is not possible in case of bad weather, if no vent button LT 84-U-W available.



## Group plug-in unit GME 83 (Accessory)

- A further drive group can be added in control panel by group plug-in module GME 83.
- Output current is only allowed up to maximal 3 A.
- The plug-in unit can be coded with DIP switch (see page 12) like the firm installed groups on central PCB in the control panel.
- GME 83 is placed on the multipoint connector M1.
- Connection corresponds to the ones of standard groups.







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